INDEX

JOURNAL OF APPLIED CHEMISTRY

Volume 46, Numbers 1-12, 1973

JOURNAL OF APPLIED CHEMISTRY
Volume 46, Numbers 1-12, 1973
(A translation of Zhurnal Prikladnoi Khimii)

A

Abaev, G. N. - 1663
Abakumova, R. A. - 1493
Abdullaeva, L. B. - 819
Abilov, A. G. - 2687
Abramova, E. A. - 1486
Abramova, E. I. - 2494
Abramovich, Z. I. - 1241
Abramyan, V. K. - 908
Abramzon, A. A. - 1473, 1602
Adaev, E. I. - 194, 2660
Adnashova, V. A. - 1424
Afanasenkova, T. F. - 2248
Afanas'ev, V. I. - 2225
Afanas'ev, Yu. M. - 2855
Agapova, R. A. - 1314
Ageev, A. I. - 1227
Ageev, F. G. - 2089, 2514
Agranov, Kh. I. - 1321
Akbaev, A. - 682
Akchurina, N. A. - 1064
Akhmadullina, A. G. - 1377
Akhmetov, T. G. - 1424
Akimov, B. M. - 2442
Akimov, V. V. - 2318
Akopov, G. A. - 377, 1150, 2254, 2396
Aksel'rod, Yu. V. - 1607
Alabyshev, A. F. - 1698, 2470
Alekhina, T. V. - 1443
Alekperov, A. I. - 2668
Aleksandrov, A. N. - 154
Aleksandrov, N. K. - 1341
Aleksandrov, V. V. - 1321
Aleksandrov, Yu. I. - 832
Aleksandrova, L. A. - 1991
Aleksandrova, M. V. - 219
Alekseev, N. N. - 230
Alekseev, V. I. - 1704
Alekseev, V. P. - 271
Alekseeva, I. P. - 1542, 1546
Alekseeva, N. I. - 451
Aleskovskii, V. B. - 877, 517, 1546, 2918
Aliev, V. S. - 2687
Almashev, B. K. - 297
Al'pert, L. K. - 234
Al'shanova, G. D. - 2695
Al'tshuler, G. N. - 2723
Al'tshuler, L. N. - 1781, 2784
Amanov, K. B. - 868, 1191, 1695, 2053
Amaryan, A. P. - 1760
Amelin, A. G. - 1741
Amelin, A. N. - 1968
Amelina, Z. D. - 1361
Amirova, S. A. - 1943
Andor, I. A. - 1832
Andreev, R. P. - 2477
Andreev, S. P. - 2489
Andreeva, E. D. - 2875
Andreeva, G. P. - 1802
Andreeva, G. S. - 635
Andreeva, M. A. - 1005
Andrianov, A. M. - 436
Andrianov, S. F. - 1503
Andronov, B. V. - 2213
Andronov, E. A. - 1892
Andrushchenko, N. S. - 142?
Andryushchenko, F. K. - 49
Andryushchenko, V. N. - 1623
Anikin, A. G. - 705
Anikina, V. B. - 2243
Annopol'skii, V. F. - 280, 1950, 2771
Anokhin, V. N. - 1862
Anoshchenko, I. P. - 1187
Antonov, P. G. - 1676
Antonova, E. A. - 1268
Antonova, M. M. - 11
Antonova, T. G. - 2621
Anufrieva, N. M. - 1489
Appen, A. A. - 973, 1268
Archakov, Yu. I. - 677
Arestova, G. A. - 561
Arinich, I. M. - 2096
Arkhangel'skaya, Z. P. - 64
Arkhipov, S. M. - 1048
Arslanov, M. - 1476
Artamonov, B. P. - 214
Artem'ev, A. F. - 2882
Artemov, A. N. - 2311
Artyunova, K. M. - 819
Asambadze, G. D. - 1294
Ashirov, A. A. - 1635
Askarov, M. A. - 216, 2250
Astakhov, V. A. - 717, 1827
Astakhova, G. V. - 811
Atroshchenko, A. V. - 2915
Atroshchenko, V. I. - 946, 2199
Avakova, Z. M. - 2494
Avarbé, R. G. - 440
Avdeev, N. Ya. - 316
Avdon'kin, A. F. - 2641
Averbukh, A. Ya. - 346, 2086
Averbukh, Yu. I. - 359
Avetisyan, V. Kh. - 1760
Avgustinik, A. I. - 271, 2536
Avrushchenko, É. S. - 1135
Azaryan, D. T. - 1197
Azizov, A. M. - 463, 2452, 2738

B

Babchenko, V. A. - 2044
Babel', V. G. - 1414
Babin, E. P. - 629
Babushkin, V. I. - 263
Baibakov, D. P. - 1069
Baidakov, L. A. - 25
Bakasova, Z. V. - 2564
Baketov, A. R. - 34
Bakhanov, E. - 2864
Bakhmutov, Yu. L. - 2419
Bakin, V. M. - 1279
Bakrenev, V. Yu. - 720
Balabanov, V. P. - 417
Balabanova, N. V. - 1943
Balagurova, T. A. - 338
Balanevskaya, Ts. S. - 309
Balashov, M. I. - 2628
Balashova, L. G. - 732
Balezin, S. A. - 2321
Ballo, Yu. P. - 293
Balykina, L. V. - 999
Balyakina, M. V. - 237
Bandaev, V. K. - 140
Baram, A. A. - 104
Baram, I. I. - 883
Baranov, E. I. - 897, 2946

Baranova, A.G. - 856
Baranova, T. L. - 460
Barbin, M. B. - 2341
Barikov, A.G. - 1175
Barinov, N. S. - 1001
Bartov, A. T. - 1712, 1715
Batyaev, I. M. - 1760
Batyrchaev, I. E. - 2525
Bazdyrev, V. G. - 2119
Bazhal, I. G. - 2099
Bednov, V. M. - 1244
Bekkerman, L. I. - 174, 1421, 1527
Bekyashev, R. Kh. - 908
Belen'kaya, S. L. - 1368
Bel'fer, S. I. - 2154
Belgorodskii, I. M. - 2882
Belinskii, V. N. - 697
Belogorodskaya, K. V. - 2875
Belotserkovskii, G. M. - 1879
Belousov, V. P. - 1595
Belousova, E. M. - 2077
Belousova, L. I. - 702
Belov, P. S. - 2154
Belozerova, L. A. - 1321
Bel'tsov, V. M. - 2171
Belugin, V. F. - 251
Belyaev, É. K. - 2771
Belyaeva, V. A. - 1365, 2435
Belyakova, E. P. - 202
Berdichevskii, N. I. - 2367
Beremzhanov, B. A. - 2257
Berenblit, V. M. - 2245, 2328
Beresnev, V. N. - 1135, 1650, 2175, 2414, 2819
Berezhko, P. G. - 807
Berezin, G. Ya. - 177
Berezyuk, V. G. - 1445
Bergman, A. G. - 476
Berkman, E. A. - 451
Berlin, A. A. - 2243
Berman, M. Yu. - 995, 997
Bezdenezhnykh, A. A. - 1111
Bezprozvannaya, L. Kh. - 534
Bezrukov, O. F. - 621
Bezukladnikov, A. B. - 1069
Bibikov, N. N. - 823
Bibikova, V. I. - 1179
Biryukova, L. M. - 1909
Bisolnakov, N. Kh. - 1913
Bizhanov, F. B. - 853, 1395, 2864
Blazhin, Yu. M. - 1647, 1980
Blokhin, A. A. - 2351
Bobrov, B. S. - 803
Bobrov, V. S. - 7, 2314
Bobyrenko, Yu. Ya. - 313, 1734, 2713
Bochkova, V. A. - 1929
Bodnya, V. M. - 2014
Bogdanov, N. I. - 1806
Bogdanova, L. V. - 2875
Boichinova, E. S. - 119, 1059 1181, 1551, 1571, 2584, 2596
Boiko, L. A. - 1072
Bokareva, S. I. - 811
Bokhovkin, I. M. - 2621
Boldin, R. V. - 2940
Boldyrev, A. V. - 1465, 2485 2487, 2728
Boldyrev, B. G. - 642, 2509
Bolotova, K. N. - 2746
Bol'shakova, T. G. - 1650, 2414
Bondar', R. U. - 2119
Bondarchuk, L. A. - 954
Bondarenko, A. V. - 1154
Bondarenko, M. F. - 1241
Bondarenko, T. G. - 1365, 2435
Borbulevich, Ya. N. - 230
Borisov, A. V. - 2253
Borisov, M. I. - 364
Borisova, L. V. - 2240
Borisova, V. B. - 2735
Borodkina, N. I. - 1991
Borovaya, V. A. - 2709
Borukhov, I. A. - 2532
Bragina, M. N. - 2679
Braginskaya, R. I. - 306
Bratash, E. G. - 288
Braudo, E. E. - 2682
Breitman, É. D. - 1044
Brekhunets, A. G. - 284
Bruile, E. S. - 690
Brunshtein, I. Z. - 1602
Budnik, V. G. - 2803
Budtov, V. P. - 621
Bufetchikova, O. Ya. - 1486
Bugai, P. M. - 1467, 2002
Bugrova, L. V. - 1627
Buketov, E. A. - 2442
Bukko, N. A. - 747
Bulanova, T. F. - 1283
Bulatov, M. I. - 2918
Bulatova, A. A. - 2918
Bulygin, B. M. - 1991
Bunchuk, L. V. - 20
Burkat, V. S. - 1201
Burmakin, N. M. - 995, 997
Burova, G. V. - 2248
Burylev, B. P. - 2934
Bushinskii, V. I. - 738
Busse-Machukas, V. B. - 2440
Butt, Yu. M. - 1275
Buyanova, N. E. - 1132
Buzina, G. V. - 2456
Bychkova, N. A. - 2497
Bychkova, Z. N. - 705, 1478
Bykov, V. A. - 2464
Bykov, V. T. - 729
Bykova, A. N. - 2303
Bykova, M. A. - 326
Bytenskii, V. Ya. - 2431

C

Chalaya, Z. I. - 933
Chebotareva, N. V. - 1616
Chechik, O. S. - 708
Chekhovskikh, A. I. - 2019, 2024
Chelok'yan, N. D. - 954
Cherkinskii, Yu. S. - 741
Chernen'kaya, E. I. - 1306, 1707
Chernenko, V. F. - 2099
Chernobyl'skii, I. I. - 2650
Chernyakhovskaya, M. I. - 232
Chernyavskii, V. I. - 522
Chernykh, M. A. - 1345
Chernykh, O. A. - 2596
Chesnokova, R. V. - 342
Chetverina, R. B. - 1059, 1181
Chichkarev, A. P. - 2847
Chikhladze, N. M. - 890
Chirkov, A. K. - 479, 670
Chirkov, V. P. - 988
Chistov, A. S. - 2077
Chub, G. D. - 2480
Chukhlantsev, V. G. - 2287
Chuprova, A. P. - 2834

D

Danilov, S. N. - 662, 961
Danilov, V. V. - 2204
Danilova, N. I. - 629
Dashevskaya, B. I. - 2014
Dashkovskii, I. D. - 1879
Dasoyan, M. A. - 2799
Davydova, G. N. - 1580
Davydova, S. V. - 2671
Deinega, Yu. F. - 53
Delkova, K. K. - 414
Demidov, D. A. - 735
Demidova, T. V. - 873
Denishchenko, V. Ya. - 199
Denisova, G. K. - 1663
Denisova, N. E. - 119, 1059, 1181, 1571, 2584
Derevyankin, V. A. - 479, 670
Desyatnik, V. N. - 1953
Devikina, L. I. - 389
Devyatkin, V. N. - 1452
Dil'man, V. V. - 1607
Dimitrov, D. I. - 1913
Dines, A. M. - 158
Dizer, É. I. - 1679

Dmitriev, I. A. - 766
Dobina, Kh. A. - 732
Dobkin, A. G. - 925
Dobkina, E. I. - 2059
Dobosh, V. G. - 2913
Dobozy, O. K. - 1298
Dobycheva, S. I. - 1764
Dobychin, S. L. - 621
Dol'berg, E. B. - 2260
Dolgopolov, I. P. - 1476
Dolgopol'skii, I. M. - 732
Dolgov, V. V. - 267
Dolinkin, V. N. - 2502
Dolmatov, Yu. D. - 1028
Domanskii, I. V. - 2641
Dombalov, I. V. - 659
Donskikh, P. A. - 1452
Dorfman, Ya. A. - 1194, 2202
Doronkina, R. F. - 1772
Dovgei, V. V. - 342
Dovyborova, L. N. - 2730
Drabkin, A. E. - 1248
Draiko, L. I. - 245
Drobysheva, I. V. - 2815
Drozin, N. N. - 1682
Druzhinin, I. G. - 2525
Dubchenko, V. N. - 410, 1933
Dubil', E. S. - 2035
Dubinin, B. V. - 1953
Dubinina, N. I. - 2588
Dubonos, K. I. - 1676
Dubrava, E. F. - 280, 1950
Dubrovich, N. A. - 571
Dubrovskii, V. P. - 1271, 1755
Dudkin, M. S. - 666
Dudorova, V. S. - 1201
Dugacheva, G. M. - 705, 1478
Dukhanin, V. S. - 1287
Dulatov, Yu. A. - 1103
Dunaeva, T. I. - 837
Duntov, F. I. - 1940
Durdin, Ya. V. - 2333
Dushina, A. P. - 517, 790, 1092, 1542, 1546, 1751
Dvegubskii, N. S. - 2449
Dvernyakova, A. A. - 202
Dvorina, L. A. - 2056
Dymarchuk, N. P. - 457, 986, 1380
Dytnerskii, Yu. I. - 1555
Dzhalilov, A. T. - 216, 2250
Dzhumagulov, S. D. - 2580
Dzyubenko, E. P. - 2099

E

Efimov, E. A. - 1639
Efremov, I. F. - 275, 2827
Egorova, I. V. - 1439
Éide, Z. A. - 1943
Éidus, Ya. T. - 1283, 1929
Eirish, Z. N. - 2104, 2716
Ekhlakova, F. V. - 1943
Él'bert, É. I. - 650
Élik, É. E. - 2924
Elishevich, A. T. - 2385
Emel'yanenko, N. L. - 973
Emel'yanova, A. T. - 2192
Emel'yanova, N. A. - 1879
Enyutina, T. M. - 240
Epifanov, V. S. - 894, 1418
Epimakhov, V. N. - 925, 2834
Ereiskaya, G. P. - 837
Eremenko, R. A. - 1467
Erkova, L. N. - 162
Ermolaev, M. I. - 177
Ermolenko, I. N. - 1407
Érnestova, L. S. - 1194, 2202
Eron'ko, E. B. - 1256, 2940
Eron'yan, M. A. - 440
Eroshevich, T. A. - 692
Ershov, O. S. - 2465
Ershov, V. A. - 2767
Ershova, V. A. - 2682
Erusalimchik, I. G. - 1639
Esin, Yu. O. - 2554
Evdokimov, A. A. - 93
Evdokimov, D. Ya. - 1510, 2066, 2543
Evgunov, A. V. - 1974
Evreev, V. N. - 1739
Evseev, L. N. - 127
Evseeva, V. B. - 476
Evstaf'eva, R. I. - 7
Evsyutina, N. G. - 702
Evtyukhova, O. V. - 1445
Evzel'man, I. B. - 1244

F

Farberov, M. I. - 1154
Fasman, A. B. - 297, 2775
Fateeva, V. N. - 316
Fedina, Z. I. - 469
Fedorishcheva, I. P. - 2844
Fedoritenko, I. I. - 29
Fedorov, A. A. - 500
Fedorov, M. K. - 684, 1055, 1785, 1988, 2080
Fedorov, N. F. - 513
Fedorov, O. K. - 104
Fedorov, P. I. - 237
Fedorov, V. A. - 786, 1542, 1546
Fedorova, G. A. - 795
Fedorova, R. I. - 1143
Fedorova, R. V. - 237
Fedorova, T. S. - 219
Fedorova, T. V. - 64
Fedot'ev, N. P. - 976, 1215
Fedotov, A. S. - 1248
Fedotov, N. V. - 1988
Fedyanin, N. P. - 1632
Fefelova, G. F. - 179
Filanovskii, B. K. - 214
Filatov, Yu. V. - 894
Filippov, É. P. - 786
Filippov, I. P. - 1107
Filippov, N. A. - 2164, 2363, 2603, 2698
Filippova, Z. G. - 2059
Flerov, V. N. - 338
Flis, B. I. - 38, 42
Fokanov, V. P. - 621
Fokin, V. P. - 1884
Fol'ke, K. - 522
Fomchenkova, A. I. - 2723
Fomina, E. A. - 2030
Fomina, V. I. - 1687
Fomina, V. V. - 949
Forost, M. P. - 140
Fotiev, A. A. - 1534
Frenke, V. D. - 1052
Frantsuzova, N. E. - 506
Fratkin, Z. G. - 293
Freidlin, G. N. - 240, 738
Frenkel', B. N. - 2572
Fridman, S. G. - 1682
Fridman, V. M. - 959
Frolov, A. F. - 1598
Frolov, V. F. - 720, 1349
Frolov, V. I. - 1642
Frolova, T. I. - 738
Frost, A. M. - 1329
Fuks, I. S. - 2896
Furman, A. A. - 2447
Furmer, Yu. V. - 1607
Fursei, L. A. - 2464

G

Gabeleva, L. P. - 735
Gabrielyan, A. M. - 990
Gaile, A. A. - 2419
Gaivoronskaya, N. P. - 837
Galankin, I. I. - 1760
Gal'braikh, É. I. - 2063
Galitskaya, N. B. - 2391
Galkin, O. A. - 1116
Galushko, V. P. - 1072
Gamali, I. V. - 186, 2119
Gamaskin, E. I. - 983
Gankin, V. Yu. - 2896
Ganz, S. N. - 302, 1341, 1506, 1767, 2576

Garber, Yu. N. - 1710,2233
Garkun, V. K. - 1259
Gasparyan, É. D. - 330
Gavrilenko, I. B. - 2767
Gavrilov, A. P. - 513
Gavrilov, B. G. - 234, 2407
Gavrilov, M. Z. - 1407
Gavrilov, N. N. - 650
Gavrilova, L. P. - 38
Geinrikhs, K. Ya. - 1177
Geladze, L. B. - 101
Gel'd, P. V. - 2554
Georgiev, Zh. L. - 849
Gerasimchuk, L. A. - 561
Gerasimenko, L. N. - 2367
Gerasimov, V. V. - 1017
Gerasimova, L. E. - 2607
Gerbert, G. P. - 2528
Gergalova, G. N. - 976, 1215
Germanov, B. I. - 414
Gershenovich, A. I. - 617
Gerzhberg, Yu. I. - 254,1213
Getmanskii, I. K. - 2225
Gidaspov, B. V. - 1232, 1233
Gintsberg, É. G. - 1294
Ginzburg, O. F. - 1235
Girgor'yan, L. G. - 1107
Gitis, É. B. - 280, 1950
Gladkii, A. V. - 2855
Gladkii, I. N. - 2337
Gladkova, G. V. - 2311
Gladkova, V. F. - 1530
Gladskii, I. N. - 2664
Gladyshev, V. P. - 1175, 1177
Glazkova, I. N. - 2607
Glazunova, G. S. - 1937
Glushkov, V. P. - 1692
Gluzman, M. Kh. - 2014
Godmeva, M. M. - 1537
Godon, L. A. - 1567
Godun, I. V. - 2074
Gol'braikh, Z. - 1015
Gol'denberg, A. L. - 1222
Gol'dinov, A. L. - 1332
Gol'dshtein, L. M. - 313
Gol'dshtein, V. V. - 2494
Golev, A. K. - 2554
Golikova, V. I. - 819
Goloborod'ko, V. P. - 1341
Golomb, L. M. - 2410
Golosnitskaya, V. A. - 2730
Gol'tyakova, R. I. - 687
Golub, A. M. - 778
Golub, Yu. S. - 474, 694
Golubko, L. A. - 240
Golyaev, V. G. - 940
Gopienko, Val. G. - 1189
Gopienko, V. G. - 1080,2070, 2074
Gorbacheva, S. A. - 154
Gorbushenkov, V. A. - 2784
Gorelik, L. I. - 1052
Gorelkin, I. I. - 597, 1146
Gorgoraki, E. I. - 1639
Gorin, Yu. A. - 1897
Gorina, G. N. - 2253
Gorlovskii, D. M. - 2618, 2780
Gorokhov, A. A. - 2751
Goroshchenko, Ya. G. - 202, 1264
Gorovaya, I. B. - 921
Gorovits, M. A. - 1332
Gorshtein, A. E. - 2358
Gorshtein, G. I. - 534
Gorskii, A. T. - 966
Goryunova, N. A. - 629
Grachev, K. Ya. - 199, 2660
Gracheva, O. I. - 1008, 1044
Grach'yan, A. N. - 774, 2730, 2732
Granat, D. A. - 807
Gratsershtein, L. I. - 1760
Gravech, K. Ya. - 57
Greben', V. P. - 1562
Grebenik, V. Z. - 57, 2660
Grebenshchikov, R. G. - 1427
Greiver, T. N. - 783
Grekov, S. D. - 2913
Gribkova, L. V. - 101
Gribova, S. N. - 2431
Gridin, I. D. - 2615
Grigo'eva, I. M. - 2210
Grigor, V. A. - 976, 1215
Grigoryan, L. G. - 330
Grilikhes, M. S. - 214
Grinberg, D. N. - 87
Grin'ko, L. S. - 2568
Grishchenko, V. F. - 2472
Gritsenko, T. I. - 49
Grivnak, L. M. - 2509
Gromov, V. F. - 2171
Gromova, N. A. - 2502
Gromova, V. V. - 2421, 2748
Gropyanov, V. M. - 2427
Gruba, A. I. - 284
Grushkina, S. A. - 2150,2324
Gruzhinin, I. G. - 2564
Gryncharov, I. N. - 2706
Gubanova, T. I. - 1974
Gudkina, L. V. - 1140
Gulinsky, V. - 1455
Gur, E. N. - 1950
Gurevich, N. Yu. - 726
Gurevich, V. R. - 819
Gur'yanova, G. P. - 1436
Gurzhiyants, A. P. - 1700
Gurzhiyants, I. N. - 1700
Gus'kov, V. A. - 2245, 2328

H

Hung, Nguyen Man - 2000

I

Ibragimov, F. Kh. - 1337
Idlis, G. S. - 1980
Ikonnikova, G. G. - 1244
Il'ichev, S. N. - 588, 2695
Il'ina, V. M. - 2679
Ilyushin, M. A. - 380
Imanverdiev, A. A. - 2687
Imyanitov, N. S. - 647,2839
Iofa, Z. A. - 556
Ioffe, I. I. - 565
Ioileva, K. A. - 639
Iolko, M. V. - 467
Ionin, M. V. - 865
Ioshpa, I. E. - 1031,2282,2438
Isaev, N. I. - 2815
Isaeva, E. A. - 2932
Isaeva, G. Ya. - 377,1150, 2254, 2396
Isagulyants, V. I. - 398,503, 1489, 2000, 2518
Isakov, V. P. - 97, 490
Ismatov, Kh. R. - 980
Itskovich, V. A. - 1207, 2147, 2239
Ivanchev, S. S. - 1832
Ivanov, D. G. - 538
Ivanov, I. A. - 1185
Ivanov, I. P. - 708
Ivanov, M. A. - 949
Ivanov, V. A. - 673
Ivanov, V. G. - 2282,2438
Ivanova, G. V. - 1875
Ivanova, I. I. - 2154
Ivanovskaya, L. A. - 293

K

Kabysh, G. M. - 53
Kafarov, V. V. - 1103, 1819, 2645
Kagan, E. G. - 1955
Kaganskii, I. M. - 1588,2926
Kalacheva, V. G. - 2011
Kalinin, N. N. - 1567
Kalitina, L. N. - 1310
Kalitvyanskaya, V. I. - 1225
Kalmykov, V. A. - 1441,2231
Kalugina, S. K. - 1473
Kamenetskii, M. V. - 1698
Kamenskii, I. V. - 2679
Kamysheva, S. A. - 732
Kanevskaya, I. G. - 1486
Kapkan, L. M. - 424

Kapustina, V. V. - 666
Karagodina, N. V. - 1794
Karapetyan, L. P. - 1294
Karataeva, T. M. - 823
Karavaev, M. M. - 946
Karazhanov, N. A. - 2011
Karchevskii, A. V. - 306
Karel'skaya, V. F. - 1218
Kargman, V. B. - 2391
Karimov, R. Z. - 980
Karkozova, G. F. - 1222
Karlina, G. A. - 162
Karpacheva, S. M. - 1352
Karpenko, V. G. - 2480
Karpenko, V. V. - 2358
Karpov, O. N. - 424
Karpukhin, P. P. - 2505,2872
Kartashova, N. A. - 735
Karyakin, Yu. V. - 1968
Karyazin, P. P. - 196
Kashcheeva, I. A. - 1588,2926
Kashina, N. I. - 1048
Kashkin, A. V. - 2419
Kasperovich, V. P. - 232
Kas'yanova, G. N. - 1036
Kasymova, S. S. - 762
Katin, Yu. A. - 2131
Katsenl'son, M. G. - 2900
Katsobashvili, Ya. R. - 650, 1064
Kazakevich, T. S. - 708
Kazakova, G. S. - 2008
Kazakova, S. V. - 1647
Kazanskaya, E. N. - 530
Kazanskii, V. M. - 1044
Kazantsev, E. I. - 917, 1361
Kazinik, E. M. - 2424
Keiko, N. A. - 2847
Keiko, V. V. - 2847
Keropyan, V. V. - 476
Khalyapina, O. B. - 20
Khamskii, E. V. - 1434,1777, 1945, 2303, 2449, 2711
Khan, V. P. - 766
Khanapin, K. G. - 2557
Khanin, A. M. - 759
Kharitonov, N. P. - 2256
Khar'kov, S. N. - 1937
Kharlampovich, G. D. - 114, 2720
Khaspekova, T. R. - 2728
Khazanov, E. I. - 1439
Kheifets, V. L. - 549,1623, 1921
Khelemskaya, N. M. - 2024
Khentov, V. Ya. - 1884,2500
Khilenko, N. I. - 2844
Khin'kis, S. S. - 2192
Khlebosolova, E. N. - 940
Khludenev, I. K. - 1129
Khmelina, L. A. - 2741
Khodov, G. Ya. - 2307
Kholmogorov, A. G. - 588,1888
Kholodnov, V. A. - 1843,2086, 2180
Kholomonova, N. D. - 1806
Khomenya, O. P. - 1111
Khomko, S. V. - 2518
Khristich, A. I. - 1627
Kibrik, É. D. - 2456
Kim, P. P. - 1031
Kipnis, A. Ya. - 60
Kirilenko, Yu. K. - 1491
Kirpichnikov, P. A. - 1377
Kirsanov, A. V. - 936
Kir'yanov, A. K. - 1794
Kiselev, A. D. - 961
Kiselev, V. M. - 109
Kiseleva, R. A. - 385
Kiseleva, Z. M. - 2254
Kislitsina, N. A. - 880
Kislitsyn, A. N. - 145
Kitaev, L. E. - 222
Kitari-Oglu, I. G. - 194, 199
Kladnitskaya, K. B. - 697
Klebanskii, A. L. - 1024,2135
Klenkova, N. I. - 940, 1924
Klimova, O. M. - 1236,2192, 2492
Klipinitser, V. A. - 2645
Klyucharov, Ya. V. - 2207
Klyuchnikov, N. G. - 487,1287
Klyuchnikov, Yu. F. - 2775
Klyuchnikova, E. F. - 1080,1189, 2070, 2074
Klyueva, Z. A. - 1980
Klyusov, A. A. - 966
Kobel'chuk, Yu. M. - 2868
Kobyakov, V. M. - 1940
Kochnev, I. G. - 1210
Kogan, B. E. - 1244
Kogan, D. I. - 1764
Kogan, E. A. - 1510, 2066, 2543
Kogan, I. V. - 1481, 2237
Kogan, L. M. - 995, 997
Kogan, L. P. - 1171
Kogan, V. B. - 104,746,959, 1673, 1940
Kokhanov, G. N. - 1314
Kokurin, A. D. - 481,484, 2427
Kokushkin, O. A. - 104
Kokushkina, V. A. - 1171
Kolesnikova, I. P. - 2127
Kolodin, É. A. - 481
Kolomiets, B. S. - 2424
Kolomoiskaya, R. M. - 1506, 1767
Kolonina, N. P. - 2560
Kolosentseva, I. A. - 1329
Kol'tsov, A. I. - 2135
Kol'tsov, S. I. - 2726
Kol'tsova, E. P. - 2548
Kolvaseva, V. A. - 1222
Komalov, A. S. - 414
Komarov, E. V. - 1481, 2237
Komarov, V. M. - 1465,2485, 2487, 2728
Kondrashev, Yu. D. - 1530
Kondrasheva, A. L. - 790, 1092
Kondrat'ev, Yu. N. - 2580
Kondratov, P. I. - 177
Koneru, R. D. - 2650
Kon'kov, K. D. - 342
Konobeev, B. I. - 1974
Kononova, G. N. - 2483
Konoplev, B. A. - 1642
Konovalov, V. A. - 2092
Konshin, A. I. - 732
Konstantinov, V. I. - 205
Kontorovich, F. S. - 214
Kopylova, V. D. - 1294,2391
Korenman, I. M. - 726
Korenman, Ya. I. - 394,494, 1229, 1391, 2751, 2754
Korf, D. M. - 2291
Korneev, N. N. - 140
Korneev, V. I. - 530,1036, 2551
Korolev, V. N. - 2083
Koroleva, L. V. - 710
Korovin, S. S. - 807
Korovina, T. V. - 2628
Korsakov, V. G. - 389, 1096
Korshak, V. V. - 1005
Korshunov, A. I. - 2679
Koryukova, V. P. - 436
Korzin, V. V. - 1120
Kosenko, V. A. - 1261
Kosenkova, Yu. I. - 334,552
Koshcherenkov, N. N. - 2618, 2625, 2780
Kosmynin, A. I. - 1613, 2229
Kostenko, V. V. - 1236, 2192
Kostin, N. M. - 359
Kostromin, A. S. - 1244
Kostrov, Yu. A. - 2185
Kostyuchenko, V. M. - 617
Kotel'nikova, G. A. - 1458
Kott, V. N. - 1558
Kouzova, N. I. - 25
Koval'chuk, G. A. - 2380

Kovalev, I. P. - 2260
Kovaleva, M. P. - 588, 917, 2695
Kovalevskii, A. V. - 2743
Kovarskaya, B. M. - 1294
Kovarskii, V. A. - 293
Kozachenko, E. L. - 476
Kozhakova, A. A. - 865
Kozhurkina, I. A. - 826
Kozina, T. M. - 861
Kozitskii, V. P. - 1460
Kozkurkina, I. A. - 1616
Kozlov, N. A. - 921, 1166
Kozlova, R. L. - 2150, 2324
Kozlova, V. D. - 1960
Kramanovich, G. I. - 2732
Kramer, B. M. - 1325, 2474
Krasheninnikova, A. A. - 2447
Krasil'nikova, E. F. - 2560
Krasil'shchik, B. Ya. - 549
Krasnokut-skii, Yu. I. - 2576
Kravchenko, T. A. - 1901
Kravtsov, V. D. - 845
Kravtsov, V. I. - 750
Kremenskaya, I. N. - 309
Kremnev, V. L. - 2746
Krichevskaya, A. M. - 1449
Krichevskaya, O. D. - 2746
Krichevtsov, B. K. 2485, 2487, 2728
Krivchenok, G. D. - 1519
Krivonogov, V. P. - 1031
Krokhin, V. A. - 1684
Krokhina, A. G. - 1684
Kruglik, A. E. - 1819
Kruglov, É. A. - 1241
Kruglova, E. G. - 1317
Krumgal'z, B. S. - 254, 1213
Krupnik, L. I. - 2089, 2514
Krylatov, Yu. A. - 1383, 1917
Krylov, V. N. - 2287
Kryuchek, V. G. - 2456, 2676
Kryzhanovskaya, V. V. - 2500
Ksenzenko, V. I. - 602
Kuatbekov, M. K. - 1349
Kubareva, N. I. - 2560
Kubasov, A. A. - 222
Kucherenko, V. I. - 338
Kucheryaeva, G. D. - 1008
Kucheryavyi, V. I. - 208, 583, 1781, 2618, 2625, 2780, 2784
Kuchinskaya, L. M. - 1888
Kudim, T. V. - 2258
Kudryashova, R. I. - 2720
Kudryavtsev, Yu. D. - 774
Kudryavtseva, M. I. - 2424
Kuklinskii, A. Ya. - 617
Kukoz, F. I. - 316
Kukushkin, Yu. N. - 692, 1015, 1436, 1676
Kulagina, T. G. - 726
Kulev, D. Kh. - 1963
Kulikova, E. F. - 1682
Kulikova, N. P. - 700
Kulish, E. A. - 1712, 1715
Kul'kova, T. F. - 1310
Kulle, P. A. - 1843, 2180
Kumanova, B. K. - 1913
Kupriyanova, Z. N. - 251
Kuranova, I. L. - 999
Kurbatov, G. A. - 1441, 2231
Kurbatova, R. N. - 140
Kurchevskaya, E. O. - 795
Kurilenko, O. D. - 2099
Kurkova, N. S. - 1064
Kurochkin, Yu. Yu. - 2654
Kurochkina, M. I. - 710, 751, 1252, 1253, 2452, 2738, 2765, 2766
Kushnir, S. V. - 1271, 1755
Kusov, A. B. - 389
Kutlugizhina, I. Kh. - 1337
Kutsenko, L. I. - 961, 1924
Kuvshinnikov, I. M. - 101
Kuzichkin, N. V. - 1712, 1715
Kuzin, I. A. - 613, 936, 1558, 1892, 1905, 2274, 2351, 2459, 2592
Kuz'micheva, T. N. - 2424
Kuz'min, N. M. - 2227
Kuznetsov, G. S. - 908
Kuznetsov, S. I. - 441, 479, 670, 1671, 2703
Kuznetsov, V. L. - 708
Kuznetsov, V. M. - 2044
Kuznetsova, A. G. - 2483
Kuznetsova, G. N. - 2921
Kuznetsova, N. N. - 1558, 2511, 2942
Kuznetsova, S. M. - 2059
Kuznetsova, V. A. - 1003
Kvasha, V. I. - 2946
Kvirikashvili, V. L. - 2004

L

Lagunova, V. N. - 1642
Lainer, V. I. - 1732
Lantratov, M. F. - 1584, 2107, 2222, 2345, 2470
Lantratov, V. M. - 968
Lapidus, A. L - 1283
Lapina, V. A. - 398
Lapshina, A. I. - 1523
Larin, A. A. - 755
Larionova, Yu. A. - 2135
Larionova, Z. M. - 1084, 1523
Laskorin, B. N. - 574, 687, 2104, 2253, 2607, 2716
Lastochkina, I. I. - 354
Latina, Z. I. - 2447
Lavrov, I. S. - 845
Lavrova, É. M. - 1848
Lavrova, L. A. - 1380
Lazarev, É. M. - 45
Lazarev, L. N. - 2213
Lazareva, N. V. - 2735
Lazeeva, M. S. - 373, 579
Lebedev, E. V. - 954
Lebedev, O. A. - 1458
Lebedev, V. A. - 2743
Lebedeva, I. I. - 545
Lebedeva, N. D. - 2131
Legin, G. Ya. - 152, 421
Leitman, Ya. I. - 380
Leitsin, V. A. - 2913
Lemeshko, N. V. - 602
Leonov, B. M. - 1905, 2274, 2459
Leonov, M. R. - 2311
Leonov, V. E. - 946
Leont'ev, Ya. A. - 2388
Leont'eva, I. A. - 2924
Lepilina, R. G. - 293, 861, 1519
Lepnev, É. N. - 966
Leskin, V. V. - 1960
Levichev, S. A. - 225
Levin, M. I. - 1372
Levin, S. Z. - 87
Levina, A. S. - 608
Levinskii, B. V. - 1764
Levkovich, A. N. - 1283
Levkovich, M. M. - 1283
Lezin, Yu. S. - 897, 2946
Liakumovich, A. G. - 245, 2882
Likhachev, D. S. - 2592
Lipatova, L. F. - 1244
Lipkin, Ya. N. - 196
Lipunov, I. N. - 917, 1361
Lishtvan, I. I. - 1120
Lisitsyn, V. N. - 497
Litovchenko, G. D. - 2185
Litvinchuk, V. M. - 342
Litvinova, T. I. - 526, 679, 1591
Lizogub, A. P. - 954
Lobov, B. I. - 1760
Lobova, M. V. - 1418
Loginova, M. A. - 1598
Lokshtanova, O. G. - 68, 976, 1215, 1317
Lopatin, B. L. - 1960
Losev, B. I. - 1772

Loskutov, A. I. - 2592
Lozovoi, V. I. - 629
Lubenskii, A. P. - 2806
Lukicheva, T. M. - 1892
Lukin, V. D. - 717, 1827
Lunev, V. D. - 710
Lutsik, V. P. - 2204
Lutugina, N. V. - 1852
L'vov, Yu. A. - 2824
L'vovich, F. I. - 2796
Lyadov, N. S. - 826
Lychkin, I. P. - 1197
Lysenko, N. M. - 1739
Lyubanskii, B. P. - 506
Lyubchenko, Yu. A. - 342
Lyubetskii, S. G. - 1222, 1940
Lyublinskii, E. A. - 823
Lyustgarten, E. I. - 2391
Lyutsedarskii, V. A. - 2568

M

Magunov, R. L. - 2462
Makarov, D. F. - 692
Makarov, Yu. A. - 2243
Makarova, A. N. - 815
Makarova, T. A. - 887
Makhalkina, L. V. - 1221
Makogon, A. V. - 655
Makovetskaya, K. N. - 1135
Maksimov, A. M. - 2497
Maksimyuk, E. A. - 183, 451, 2063, 2370
Malenko, Yu. I. - 93, 2248
Malev, V. V. - 902, 2333
Malin, K. M. - 2282
Mal'ts, N. S. - 2210
Malygin, A. A. - 2726
Malygin, V. V. - 1724
Malyshev, V. P. - 2442
Malysheva, L. S. - 2528
Mambetov, A. A. - 1534
Mamedov, Sh. - 2006
Mamin, Kh. A. - 2401
Mamontov, B. V. - 1470
Mamontova, G. A. - 873
Manakin, G. A. - 1588, 2926
Manenkov, M. I. - 2047
Marasanov, G. V. - 1659
Mardanenko, V. K. - 2011
Mariampol'skii, N. A. - 2494
Marinichev, A. N. - 368, 2633
Markaryan, R. L. - 1441
Markazen, Z. Kh. - 2030
Markevich, V. S. - 1162
Markin, V. I. -2440
Markova, N. E. - 1345
Markovskii, L. Ya. - 968, 1530
Markuzin, N. P. - 82, 373, 579
Martynov, Yu. N. - 1632
Mar'yanchik, L. V. - 970
Mashlyakovskii, L. N. - 2756
Mashovets, V. P. - 684, 1055, 1988, 2080
Maslov, P. G. - 364
Maslyanskii, G. N. - 1132
Masperovich, V. M. - 313
Masterova, A. P. - 1372
Masytin, N. N. - 2351
Matchina, K. A. - 2008
Materova, E. A. - 752
Matveev, G. M. - 2572
Matveeva, N. A. - 1924
Matveeva, N. P. - 2380
Matveeva, R. P. - 460, 2080
Matychenko, É. S.- 205
Mchedlishvili, B. V.- 1210
Mchedlov-Petrosyan, O. P. - 522
Medved', Z. N.- 1166
Medvedeva, I. N. - 530
Medvedeva, V.I. - 1008
Mekler, L. I. - 2442
Melikyan, V. R. - 2000, 2518
Melkov, M. P. - 321
Mel'nichenko, M. Ya. - 1955
Mel'nik, L. V. - 1598
Meos, A. I. - 1491, 1493, 2497
Merkulova, K. S. - 690
Merkushev, O. M. - 845
Metkin, I. A. - 1858
Metsatunyants, V. E. - 1620
Mezentsev, A. I. - 1562
Mikhailenko, L. A. - 167
Mikhailova, E. N. - 1682
Mikhailova, N. F. - 60
Mikhailova, V. P. - 2333
Mikhalev, M. F. - 1107
Mikhaleva, T. K. - 2019, 2024
Mikhalevich, N. K. - 342
Mikheenko, T. I. - 136
Mikhlina, E. M. - 87
Milyukov, E. M. - 2932
Milyutin, N. N. - 1789, 2111
Mironenko, V. F. - 1710, 2233
Mironov, A. N. - 1503
Mironov, I. M. - 2536
Mironov, V. F. - 1221
Mishchenko, K. P. - 454, 1380
Mishchenko, I. F. - 1627
Mishel', V. É. - 673
Mishenov, Yu. M. - 2834
Mitina, V. V. - 1143
Mitrofanova, L. A. - 1084
Mitrofanova, L. M. - 2404
Moiseev, B. A. - 949
Mokhosoev, M. V. - 284, 2279
Mokhov, A. G. - 842, 2657
Mokhova, M. L. - 448
Molchanova, G. K. - 2407
Molodkin, V. M. - 1210
Momot, N. N. - 2588
Monastyrskaya, K. F. - 354
Morachevskii, A. G. - 194, 326, 1257, 1481, 1698, 2267, 2367, 2440, 2523, 2796
Morachevskii, V. G. - 571
Morgunova, É. M. - 1021
Morlyan, N. M. - 990
Morozov, L. A. - 2388
Morozova, A. I. - 1647
Morozova, S. B. - 1483
Moshchinskaya, N. K. - 2868
Moshoshina, M. N. - 1734, 2713
Moskvichev, B. V. - 1867, 2511, 2942
Moskvin, A. F. - 2008
Moskvin, L. N. - 1567
Motov, D. L. - 1537
Motsarev, G. V. - 2135
Mozharova, V. - 2709
Mukhin, N. N. - 38, 42
Mukhlenov, I. P. - 1011, 1862, 2059, 2086, 2358, 2514
Mukmeneva, N. A. - 1377
Muradov, A. Sh. - 2220
Muradyan, A. G. - 990
Muratova, A. A. - 1377
Murav'eva, É. V. - 1700
Muravin, K. A. - 2746
Murin, I. V. - 2465
Murogova, R. A. - 2615
Murzakov, B. G. - 228
Musabekov, K. B. - 72
Musakin, D. A. - 1185
Musakina, V. P. - 930
Mushenko, D. V. - 1001
Myasnikova, L. F. - 738
Myslin, T. L.- 2872

N

Nabiev, M. N. - 2532
Naboichenko, S. S. - 1575
Nabutovskaya, L. L. - 1977
Nachinkin, O. I. - 1227
Nadezhina, L. S. - 2671
Nadol'skii, A. P. - 1888, 588
Naglenko, G. K. - 1726
Narizhnaya, O. N. - 1852
Navtanovich, M. L. - 1921
Nazirova, R. A. - 216
Nechaeva, V. V. - 2024
Nefedova, G. Z.- 1562

Nelaev, I. P. - 2321
Nepenin, Yu. N. - 1655
Nesterchuk, N. I. - 887
Nestrueva, E. I. - 890
Ni, L. P. - 20
Nichkov, I. F. - 2743
Nigmatulin, R. V. - 1937
Nikandrova, G. I. - 1852
Nikiforov, A. F. - 1445
Nikitin, B. M. - 526, 679, 1591
Nikitina, L. V. - 1084, 1523
Nikitina, O. G. - 2539
Nikitina, S. D. - 2711
Nikitinskii, V. I. - 1679
Nikolaev, A. F. - 2168, 2401, 2875, 2887
Nikolaev, D. A. - 471, 712
Nikolaeva, N. N. - 2358
Nikolaevskii, V. Yu. - 2660
Nikol'skii, V. A. - 451, 1802
Nirol'skaya, T. A. - 440
Nisel'son, L. A. - 811, 912, 1179, 1718, 1985, 2929
Nizker, I. L. - 2006
Novakovskii, A. M. - 2150, 2324
Novichkova, L. M. - 2489
Novikova, E. G. - 2407
Novikova, E. I. - 2168
Novokshatka, D. A. - 738
Novoselov, N. P. - 986
Novoselov, V. A. - 2660
Novoselova, L. V. - 1414
Novotel'nova, N. Ya. - 2215
Novozhenov, V. M. - 1671
Nurakhmetov, N. N. - 2557

O

Ob"edkova, L. V. - 1598
Obolenskaya, É. A. - 1434
Obretenov, Ts. G. - 1551
Obukhov, V. M. - 1154
Obydennova, I. V. - 1143
Odinets, M. P. - 1960
Odokienko, S. S. - 1204, 1232, 1233
Ofitserov, A. A. - 815
Ogorodnikov, S. K. - 1647, 1980
Ogurtsov, A. V. - 1120
Okhrimenko, I. S. - 625, 2756
Oleinik, B. N. - 832
Olert, L. G. - 1310
Olevskii, V. M. - 992
Olginskii, A. G. - 522
Ongarbaev, S. - 2864
Onoprienko, G. I. - 542
Orekhov, M. A. - 1514
Orekhova, V. V. - 49
Orlov, V. V. - 16
Orlov, Yu. F. - 795, 1687
Orlova, G. M.- 771
Orlova, L. A. - 16
Orlova, O. S. - 114
Orlovskaya, G. M. - 2431
Oshurkova, O. V. - 826, 1616
Osipchuk, E. O. - 1897
Osipov, B. S. - 845
Osipov, O. B. - 2006
Osmanov, É. O. - 25
Osovskaya, I. I. - 457
Ostrikov, M. S. - 1884, 2500
Ostrovskii, G. M. - 97, 490, 2687
Ostrovskii, M. V. - 1473, 1602
Ostrovskii, V. V. - 2256
Ovchinnikova, T. M. - 2122, 2741
Ozhegov, P. I. - 1462

P

Pais, M. A. - 1241
Palant, A. A. - 1124
Pal'chevskii, V. V. - 1493
Panasenko, N. M. - 1950
Panenko, V. V. - 1483
Panfilov, I. A. - 650
Panfilova, L. A. - 1687
Pan'kovskaya, K. B. - 629
Panov, E. P. - 617
Papazova, E. I. - 1802
Papkov, S. P. - 2185
Papukova, K. P. - 1558, 2511, 2942
Papunashvili, N. A. - 2295
Paputskii, Yu. N. - 1052
Parfenenko, V. V. - 2456
Parfenkov, V. N. - 1427
Parkhonenko, V. D. - 1341, 2576
Parlapanski, M. D. - 1722
Pasechnik, V. A. - 72, 1867
Pashchenko, A. A . - 167
Pashchenko, I. S. - 2910
Passet, B. V. - 1843, 2180
Paushkin, Ya. M. - 1143
Pavlov, S. S. - 2239
Pavlova, L. A. - 2070
Pavlovskii, V. K. - 2580
Pavlushenko, I. S. - 359
Pavlyuchenko, E. N. - 2709
Pavlyukov, A. A. - 1958
Pazukhina, G. A. - 1655
Pchelintsev, V. V. - 1955
Pedikova, L. N. - 1239
Peksheva, N. P. - 1798
Pelevina, R. S. - 1465
Pen, R. Z. - 414
Penkina, N. V. - 992
Pepelyaeva, E. A. - 1387
Perazich, D. I. - 469
Perepelkin, K. E. - 1496, 1499
Peretrutov, A. A. - 1031
Pereverzev, A. E. - 1963
Petropavlovskii, G. A. - 1655, 1659
Petrov, A. N. - 2299
Petrov, B. F. - 2775
Petrov, G. I. - 1700, 2373, 2910
Petrov, K. A. - 152, 421
Petrov, V. A. - 1698
Petrova, L. M. - 1690
Petrova, L. V. - 2215
Petrova, N. E. - 2419
Petrova, N. I. - 1884
Petrovskaya, M. L. - 1430
Petrovskii, G. T. - 2580
Petukhov, G. G. - 2311
Pevzner, B. Z. - 1039, 1268
Pichugina, L. F. - 2291
Pilichuk, Yu. S. - 1888
Pilugina, L. G. - 454
Piotrovskii, K. B. - 1858, 2824
Pirogov, V. N. - 2844
Pirozhkov, S. D. - 1929
Pishchai, I. Ya. - 1264
Pishchulina, T. G. - 717
Piskov, V. B. - 232
Pis'menko, V. T. - 34
Pitalev, V. G. - 2287
Pivnenko, V. P. - 1246
Plachenov, T. G. - 123, 131, 1218, 2946
Plakidin, V. L. - 2505
Platonova, N. V. - 700
Plekhotin, V. F. - 225, 930
Pleskach, N. I. - 2615
Pliev, T. N. - 424, 954
Plisko, E. A. - 662, 1210
Plyushkin, S. A. - 1837
Podobaev, N. I. - 330, 2806
Podol'skaya, N. V. - 1072
Podval'nyi, A. M. - 1084
Pogoda, O. V. - 2494
Pokhitonov, Yu. A. - 1905, 2274, 2459
Pokonova, Yu. V. - 158, 1635, 2380, 2404
Pokrovskaya, V. V. - 2518
Poletaev, I. F. - 1048
Polishchuk, V. S. - 171, 259, 509
Polonskii, V. M. - 1476
Polozov, B. V. - 2311
Polyakov, P. V. - 1458
Polyakova, Z. A. - 2789

Polyanskii, N. G. - 377, 1150, 2254, 2396
Ponikarov, I. I. - 1103
Pon'kina, N. A. - 639
Ponomarev, A. I. - 1024, 2135
Popov, A. E. - 894
Popov, A. F. - 140
Popov, A. G. - 571
Popov, E. V. - 2410
Popov, N. I. - 853, 1395, 2864
Popov, V. N. - 1692
Popova, G. D. - 2227
Popova, G. S. - 432
Popova, O. I. - 2056
Porai-Koshits, A. B. - 992, 1811
Porotnikova, T. P. - 479, 670
Portyannikova, E. V. - 1439
Porubszky, I. - 1298
Pospelov, A. A. - 2287
Postoronko, A. I. - 2040
Potanin, A. N. - 571
Potapenko, A. P. - 561
Potekhin, V. M. - 136, 242, 402, 723, 1399, 1403, 1632, 1982, 2147, 2158, 2692, 2850, 2859
Potorzhinskaya, S. S. - 992
Pozamantir, A. G.- 2887
Pozdnyakova, D. Ya. - 1227
Pozharistkii, A. F. - 2077
Pozin, L. M. - 2063
Pozin, M. E. - 1259, 2030
Pozin, Yu. M. - 189, 474, 694, 983, 1449
Preis, G. A.- 2456, 2676
Privalova, M. M. - 545
Prokhorenko, L. A. - 1368
Prokof'eva, N. K. - 1985, 2929
Prokop'ev, E. P. - 592
Prokoshkin, D. A. - 45
Pronin, V. A. - 2758
Proskurnikov, A. A. - 842
Proskuryakov, V. A. - 136, 242, 402, 723, 1414, 1632, 1635, 1879, 1929, 1982, 2147, 2421, 2692, 2748, 2850, 2859
Prosovetskii, P. G. - 2229
Protod'yakonov, I. O. - 79, 715, 1720, 1997, 1998, 2235
Protsenko, P. I. - 2568
Pshinkin, A. S. - 786
Puchkov, A. I. - 211
Puchkov, L. V. - 460, 1055, 1988, 2080, 2373, 2793
Puchkova, B. B. - 1519
Pudovik, A. N. - 1377
Pugach, L. M. - 1980
Pukshanskii, M. D. - 1222
Pulerevich, M. Ya. - 123, 131
Puring, M. N. - 1207, 2147
Pushkarev, V. V. - 1445, 1610
Pushkina, R. A. - 617
Pustovalov, N. N. - 1610, 1815
Puzitskii, K. V. - 1929
P'yankova, A. P. - 556

R

Rabinovich, A. S. - 154
Rabinovich, G. L. - 1909
Radchenko, V. I. - 1627
Radvinskii, M. B. - 211
Raichenko, T. F. - 526, 679, 1591
Raichev, R. G. - 849
Raicheva, S. N. - 1722
Rak, R. V. - 517
Rakhmanberdiev, G. - 429
Rakhmankulov, D. L. - 503, 2882
Rakov, É. M. - 2600
Ramazanov, A. A. - 2006
Rapoport, F. E. - 2291
Rashkovskaya, E. A. - 288
Raspopin, S. P. - 1953, 2743
Ravdel', A. A. - 1811, 2204
Razumovskii, V. V. - 1329
Rechkin, V. N. - 297
Redin, V. I. - 2831
Reikhsfel'd, V. O. - 1470, 2164, 2363, 2603, 2698
Remizov, G. M. - 1724
Rempel', S. I. - 2924
Reshetnikova, A. K. - 2815
Reshetov, V. A. - 565
Revina, E. M. - 2810
Revzin, G. E. - 1690
Reznichenko, V. A. - 1124
Reznik, A. M. - 807
Reznik, I. D.- 444, 1668, 2548
Rif, I. I. - 136, 723, 1982
Rilo, P. R. - 1
Rivkind, É. P. - 2657
Rizaev, N. U. - 1476
Rodina, É. I. - 1897
Rodionova, Z. M.- 145
Rogachevskaya, G. L. - 1028
Rogovik, V. I. - 2872
Romankov, P. G. - 79, 720, 751, 1116, 1349, 1827, 1837, 1997, 1998, 2235
Romanova, T. G. - 959
Romantsevich, M. K. - 230
Roslyakova, N. G. - 877
Rostovskii, E. N. - 2489
Rostovtseva, S. A. - 700
Rotinyan, A. L. - 1256, 2810, 2940
Rotych, N. V. - 774
Royak, S. M. - 16
Rozenberg, T. I. - 1008, 1044
Rozenberg, V. R. - 2135
Rozental', D. A. - 2404
Rozental', O. M. - 275, 2827
Rozentuler, S. M. - 2887
Rozkin, M. Ya. - 1958
Ruban, I. G. - 1227
Rubinov, A. Z. - 1132
Rubinshtein, B. I. - 2388
Ruchkova, A. Kh. - 635
Rudin, V. Ya. - 542
Rudkovskii, D. M. - 647
Rudnev, G. K. - 1627
Rusanova, T. G. - 1682
Rusin, A. I. - 2799
Rustamov, A. G. - 1534
Rustamov, M. I. - 2687
Rus'yanova, N. D. - 1244
Rutman, G. I. - 2882
Ryaboi, V. I. - 1158
Ryabov, E. A. - 1974
Ryabov, É. N. - 2074
Ryabova, M. S. - 2175, 2819
Rybak, V. T. - 1132
Rybakov, V. A.- 2896
Rybakova, L. I. - 1031
Rybakova, T. A. - 1671
Rybal'skaya, G. E. - 186
Rybkina, L. A. - 897, 1100, 1218
Ryspaev, O. - 2525
Ryss, M. A. - 2554

S

Saakyan, É. R. - 2572
Sadovnikova, L. V. - 219
Safarov, M. G. - 2882
Safina, R. G. - 2584
Safiulin, N. Sh. - 280, 1734, 2713
Safonova, N. A. - 2615
Saibova, M. T. - 2532
Saidkhmedov, U. A. - 1476
Sakeev, D. A. - 1687
Salabai, O. A. - 2803
Saldadze, K. M. - 1294, 2154, 2391, 2695
Salivon, N. Ya. - 2168
Samarina, G. M.- 1598
Samborskii, I. V. - 1239

Samsonov, G. V. - 11, 72, 171, 257, 509, 1261, 1867, 2511, 2588, 2942
Sandakov, V. M. - 2554
Sannikov, V. A. - 2834
Sapakhov, S. - 2864
Sapukov, I. A. - 2775
Sarakhov, A. I. - 101
Sarbae, A. N. - 2528, 2789
Sargaev, P. M. - 1055, 2793
Sarzhe, V. I. - 79
Satalkin, A. V. - 448
Sautin, S. N. - 389
Savchenko, N. I. - 2215
Savel'ev, S. S. - 842, 2657
Savenkov, A. S. - 2199
Savin, V. S. - 747
Savinov, V. M. - 500, 2016
Savinykh, V. I. - 145
Savoshchenko, V. S. - 778
Sazhin, V. S. - 29, 970
Sazonov, A. M. - 1811
Sazonov, V. P. - 1140
Seballo, A. A. - 127, 897, 1100, 1218, 2831, 2946
Seidrzaeva, É. M. - 2687
Seifullina, I. I. - 2077
Selivanov, N. T. - 242, 2188
Selivanov, V. F. - 1232, 1233
Selivanova, B. D. - 545
Sembai, E. I. - 642
Semenov, L. V. - 2419
Semenova, E. I. - 1410
Semikina, L. E. - 2410
Semushin, A. M. - 1558
Senderskaya, E. E. - 2824
Serafimov, L. A. - 145, 2615, 2628
Serdyuk, V. V. - 1204, 1205, 1206, 2464
Serebryakov, Yu. A. - 1945
Serebryanskaya, L. M. - 68
Sergeev, G. G. - 2207
Serov, V. V. - 2859
Servryugov, L. B. - 123
Sevast'yanova, I. G. - 2196
Sevryugov, L. B. - 131
Shaboldo, P. I. - 2158, 2692
Shadrin, G. N. - 2500
Shagabutdinov, R. I. - 973
Shakh, A. P. - 1739
Shakhova, G. B. - 251
Shakunova, N. E. - 2248
Shalaginov, V. N. - 34, 267
Shamolina, I. I. - 1493
Shapiro, A. L. - 87
Shapka, A. V.- 2915
Shaposhnik, V. A. - 2815
Shapovalov, É. T. - 1017
Shastina, Z. N. - 2758
Shataeva, G. A. - 662
Shatalov, A. Ya. - 1724, 1901
Shatalov, V. V. - 574
Shchedrina, V. B. - 1901
Shchegoleva, G. A. - 930
Shchegoleva, S. I. - 1317
Shcherbakov, V. K. - 441, 2703
Shcherbatyuk, N. E. - 729
Shchukina, N. E. - 1158
Sheikina, Z. P. - 1510, 2066
Sheinkman, A. I. - 174, 313, 1421
Shelgaeva, V. G. - 1234
Shelomov, I. K.- 1679
Shemyakin, F. M. - 1966
Shenderovich, V. A. - 1158
Shenkin, Ya. S. - 1443
Shestakov, V. A. - 497
Shesterkin, I. A. - 2367, 2660
Shevyakov, A. M. - 2767
Shiballo, V. G. - 1302
Shibalovich, V. G. - 2875
Shibneva, T. S. - 179
Shigina, I. N. - 1700, 2910
Shikhov, B. A. - 2480
Shimanskii, P. E. - 1491
Shirokov, Yu. G. - 302
Shiryaev, A. N. - 897, 1100, 2654, 1218, 2831, 2946
Shiryaev, B. V. - 2168
Shiryaev, V. I. - 1221
Shishko, É. N. - 912
Shishkov, D. - 659
Shishokin, V. P. - 1254
Shkol'nik, Ya. Sh. - 16
Shkol'nikov, S. N. - 1080, 1189, 2047
Shlyapnikov, V. A. - 1076, 1483
Shmidt, L. I. - 1872
Shmuilovich, G. A.- 1811
Shokin, I. N.- 2483
Shologon, I. M. - 230
Shopen, L. A. - 1187
Shorygina, N. V. - 747
Shoshina, I. A. - 2810
Shostenko, N. A. - 1387
Shpenzer, N. P. - 506
Shpigel', L. P. - 2063
Shtan'ko, V. M. - 196
Shub, G. A. - 114
Shubin, A. S. - 1021
Shul'gina, É. S. - 2168
Shul'ts, M. M. - 7, 2314, 2465
Shumakher, L. N. - 677
Shuplyak, I. A. - 1107
Shur, M. F. - 753, 2265
Shuteeva, L. N. - 2260
Shuvalova, I. N. - 64
Shvareva, G. N. - 2243
Shvedov, V. P. - 1185
Shveikina, R. V. - 1948
Shvets, I. S. - 853, 1395
Sidorov, V. A. - 1843, 2180
Signalov, I. N. - 1751
Simanova, S. A. - 1436
Simecek, A . - 1455
Simikov, V. G. - 2505
Simonova, L. K. - 2904
Sinaiskaya, M. I. - 732
Sinegribova, O. A. - 1387
Sinyavskaya, M. K. - 2676
Sire, E. M. - 2882
Sirota, A. G. - 1222
Sirota, E. Ya. - 1995
Sizova, G. S. - 873
Skal'skaya, L. D. - 2676
Skop, S. L. - 154
Skorchelletti, V. V. - 1013, 2671
Skornyakov, N. N. - 2924
Skorokhodova, V. L. - 746, 1673
Skrylev, L. D. - 868, 1191, 1695, 2053, 2077
Skrypnik, Yu. G. - 2521
Skvortsov, G. A. - 1506, 1767
Slepchenko, A. S. - 2427
Slepchenko, V. I. - 1958
Slin'ko, L. V. - 1491, 1496, 1499
Slipchenko, G. F. - 741
Slitsan, V. V. - 481
Slivchenko, E. S. - 1129
Slutsman, N. N. - 1470
Slyn'ko, V. P. - 2002
Smaev, V. N. - 1988
Smetanina, S. S. - 799
Smirnov, A. F. - 1227
Smirnov, G. A. - 2144, 2756
Smirnov, L. M. - 2140
Smirnov, N. I. - 93, 1135, 1650, 2175, 2414, 2819
Smirnov, N. N. - 1116
Smirnov, P. A. - 1399
Smirnov, V. A. - 655
Smirnov, V. V. - 2140
Smirnova, G. G. - 1332
Smirnova, L. É. - 1937
Smirnova, L. V. - 729
Smirnova, N. M. - 2253, 2607
Smi rnova, V. A. - 254
Smolyan, Z. S. - 735
Smyslov, N. I. - 894, 1418
Snagovskii, Ya. S. - 592

Sofronov, A. L. - 1943
Sokolina, L. F. - 2855
Sokolov, A. M. - 2044
Sokolov, E. B. - 786
Sokolov, L. B. - 500, 2016, 2258
Sokolov, V. N. - 490, 2641
Sokolova, A. A. - 131
Sokolova, A. I. - 469
Sokolova, T. D. - 1985, 2929
Sokol'skii, D. V. - 853, 1194, 1395, 2202, 2864
Soldatenkova, N. A. - 444
Solomko, N. I. - 1832
Soloveichik, Z. V. - 2421, 2748
Solov'ev, E. M. - 1613
Sorokin, A. Ya. - 1003
Sorokin, I. S. - 799
Sorokin, O. S. - 1227
Sorokin, V. G. - 2321
Sorokina, V. S. - 444, 1668
Soroko, V. B. - 2514
Soroko, V. E. - 2089, 2092
Sotnikova, N. G. - 494
Spasskaya, R. I. - 407
Spiridonov, Yu. A. - 613, 936
Stakhanova, V. V. - 1150
Stankevich, R. P. - 621
Stanskaya, T. B. - 1687
Starostina, M. K. - 1732
Starpdubtsev, A. M. - 1595
Stasenko, I. S. - 2462
Statsenko, S. I. - 2440
Stepanov, D. E. - 702
Stepanova, A. M. - 687
Stepanova, L. M. - 574
Stepanova, T. F. - 1235
Stepanova, V. A. - 1682
Stepanyants, A. U. - 2518
Stepin, B. D. - 613
Stepina, É. M. - 1221
Sterligov, O. D. - 2096
Stoikov, S. N. - 321
Stolyarova, V. A. - 625
Stotskii, A. A. - 2489
Strakhov, V. I. - 2207
Strel'tsova, E. M. - 1129
Strezhneva, I. I. - 2444
Strigunov, F. I. - 1704
Styrkas, A. D. - 1729, 1971
Sultanova, I. G. - 2767
Surkov, Yu. A. - 1462
Surovyagin, B. P. - 574
Susarev, M. P. - 1595, 2611,
Svatovskaya, L. B. - 1302, 2050
Sverdlov, L. L. - 1760
Svergunenko, A. A. - 1741
Sviderskaya, O. I. - 2735
Sviridov, V. V. - 1695
Sviridova, R. N. - 1407
Svistunov, V. A. - 2532
Sychev, M. M. - 275, 530, 1036, 2050, 2551, 2735
Syroezhko, A. M. - 402, 1399, 1403, 1632, 2188, 2850, 2859
Syromyatnikov, N. I. - 2083
Sysoev, P. V. - 2679
Sysoeva, V. V. - 1789, 2111

T

Talanov, N. D. - 811
Talmud, S. L. - 506, 1171, 1917
Tan, V. A. - 1827
Tananaiko, Yu. M. - 2650
Tarakanov, B. M. - 1729
Tarakanov, O. G. - 921, 1166
Taran, N. M. - 2480
Tararin, V. K. - 774
Tarasov, E. A. - 316
Tarasov, L. A. - 1862
Tarat, É. Ya. - 1069, 1201, 1977
Tarkhanova, É. B. - 2424
Tarkovskaya, I. A. - 2040
Tarnorutskii, M. M. - 2834
Tartakovskaya, R. G. - 2014
Taube, P. R. - 856
Taushkanov, V. P. - 613, 936, 1503, 1905, 2274, 2459
Taushkanova, L. B. - 1530
Tavlinova, T. I. - 2730
Tekster, E. N. - 2370
Telepneva, A. E. - 2468
Terekhova, A. I. - 1365, 2435
Terent'ev, N. K. - 189
Terent'eva, A. A. - 1213
Terent'eva, N. I. - 2937
Tereshchenko, G. P. - 2168
Ternovskaya, A. N. - 2548
Ternyaeva, T. G. - 1875
Tertykh, L. I. - 53
Tikhomirov, G. S. - 708
Tikhomirova, G. P. - 1225, 1368
Tikhomirova, N. S. - 1562
Timonyuk, V. M. - 2122
Tishchenko, D. V. - 799
Tisov, Yu. I. - 2253
Titov, A. A. - 912
Titov, E. V. - 424
Titova, I. A. - 873
Titova, N. A. - 1663, 2890
Tkach, Yu. A. - 2127
Tkachenko, E. V. - 2269
Tkachev, K. V. - 2444
Todres, I. M. - 2391
Toikka, A. M. - 2611
Tolstoguzov, V. B. - 2682
Tolstova, T. S. - 959
Tomilov, A. P. - 2196
Topil'skii, G. V. - 1275
Torocheshnikov, N. S. - 2855
Tregubova, T. M. - 2921
Treivus, E. B. - 1052
Tret'yakova, K. V. - 1718
Trezvov, V. V. - 1234
Trizno, M. S. - 2401
Trofimov, A. M. - 2287
Trofimov, B. A. - 2758
Trofimov, V. G. - 313
Trofimov, V. I. - 1819, 1995
Trofimova, I. F. - 309
Trushanov, V. N. - 2307
Trushin, B. N. - 2695
Tsaikov, Ts. P. - 1551
Tsareva, A. Kh. - 152
Tseitlenok, T. A. - 542
Tseitlin, N. A. - 2637
Tsekhomskii, V. A. - 2295
Tsekhovol'skaya, D. I. - 2210
Tsenter, Ya. A. - 823
Tsikaeva, D. V. - 1777
Tsilyurik, T. V. - 1154
Tsirkina, A. I. - 354
Tsirlin, A. M. - 2307
Tsirlin, Yu. A. - 248
Tsitovich, I. K. - 1410
Tsitovich, O. B. - 2761
Tsveshko, G. S. - 2250
Tsurkurov, O. A. - 2328
Tsvetkova, A. A. - 2140
Tsvetkova, M. P. - 479, 670
Tudorovskaya, G. L. - 1960, 2615
Tulub, A. V. - 2263
Tulupov, P. E. - 1562
Tumanova, T. A. - 1383, 1917
Tupikin, E. I. - 487
Turunovskaya, N. P. - 1084
Tyunina, M. F. - 2789

U

Uglyanskaya, V. A. - 1901
Ugryumov, M. V. - 2140
Ul'berg, Z. R. - 53
Ulyashev, S. P. - 34
Umetalieva, S. K. - 2564
Ushakovskaya, M. G. - 986
Usol'tseva, M. V. - 2758
Uspenskii, V. A. - 109

Ustavshchikov, B. F. - 1663, 2388, 2890
Ust'yantseva, T. A. - 1310
Usvyatseva, T. R. - 832
Utevskii, L. E. - 1496
Uvarov, V. B. - 2940

V

Vaganova, V. I. - 1764
Vagramyan, A. T. - 1089
Vail', E. I. - 759
Vasiman, I. L. - 738
Vakulenko, V. A. - 1239, 1361
Val'dberg, A. Yu. - 1977
Val'dman, O. A. - 2231
Valitov, N. Kh. - 1337
Vandalovskaya, L. A. - 263
Vanyukov, A. V. - 815
Vapnik, M. A. - 293
Varganov, B. Ya. - 1806
Vargin, V. V. - 673, 2295, 2932
Varlamov, M. L. - 1588, 2926
Vasilenko, V. P. - 53
Vasilenok, Yu. I. - 1642
Vasil'ev, I. A. - 1909
Vasil'eva, A. G. - 1179
Vasil'eva, A. I. - 45
Vasil'eva, E. V. - 45
Vasil'eva, I. V. - 1772
Vasil'eva, N. M. - 2040
Vasil'eva, T. M. - 454, 639
Vasil'eva, V. A. - 248
Vasil'eva, V. I. - 786
Vasilevskaya, I. I. - 1179
Vas'kovskaya, A. A. - 729
Vasyutinskii, N. A. - 829
Vauchskii, Yu. P. - 710
Vazhenin, S. F. - 2456, 2676
Vekshina, N. V. - 968
Vel'chenko, G. V. - 1011
Velikanova, I. M. - 2185
Venerovskaya, L. N. - 2568
Vernigora, G. A. - 1306, 1707
Vertsman, L. A. - 368
Vetrova, V. V. - 1663, 2890
Vigdorovich, V. I. - 597, 1146
Vilenskii, A. R. - 346, 2086
Vilesova, M. S. - 621
Vinogradova, M. V. - 2875
Vinogradov, V. N. - 484
Vinogradova, I. G. - 1760
Vinogradova, L. I. - 2370
Vinogradova, M. G. - 1837
Vinogradova, S. V. - 1005
Vinokurov, L. Kh. - 2427
Vineter, I. K. - 119, 1059, 1181, 1571
Vishnyakov, V. M. - 1111
Visokov, G. P. - 538
Vizgert, R. V. - 2521
Vladimirov, V. A. - 1519
Vlasenko, I. G. - 2225
Vlaso, D. A. - 1963
Vlasov, V. G. - 34, 267, 755
Vlyazlo, R. I. - 2509
Vodenicharov, P. I. - 849
Vodolazov, L. I. - 574, 687
Vodop'yanova, V. A. - 334, 552
Voevodskii, A. S. - 1620, 1726
Voevudskaya, S. V. - 2462
Voitko, I. I. - 778
Vol'f, L. A. - 1493, 2497
Vol'fkovich, S. I. - 2019, 2024
Volkov, G. I. - 849
Volkov, O. S. - 1084
Volkov, V. A. - 2839
Volkova, A. N. - 2726
Volkova, L. V. - 925
Volkova, M. V. - 2492
Voloshin, G. A. - 642, 2509
Voloshin, M. P. - 2521
Volzhinskii, A. I. - 1116
Vorob'ev, V. P. - 2645
Vorob'ev, V. S. - 1909
Voronenkov, V. V. - 2008
Voronkov, M. G. - 167, 1875, 2171
Voronov, V. A. - 679
Vorontsov, E. S. - 1798
Vosolsobe, J. - 1455
Vozhzhannikov, V. N. - 2844
Voznaya, O. M. - 933
Vyacheslavov, P. M. - 68, 1317, 2220, 2477
Vyalykh, E. P. - 2758
Vydra, É. I. - 2044
Vyselkov, A . A. - 2115

Y

Yakobi, V. A. - 2505
Yakovlev, A. D. - 625
Yakovleva, M. A. - 2502
Yakovleva, N. A. - 549, 1921
Yakuba, A. R. - 1958
Yakubson, A. M. - 1995
Yampol'skii, A. M. - 181
Yarkova, É. G. - 1377
Yarmolovich, A. K. - 2047
Yarovoi, A. A. - 1690
Yarpovetskii, L. Ya. - 2376
Yarv, Z. S. - 2370
Yarym-Agaev, N. L. - 542
Yasnitskii, B. G. - 2260
Yatko, M. E. - 1718
Yavshits, G. P. - 2603, 2363, 2698
Yogodin, G. A. - 1387
Yudin, B. F. - 2427
Yurchenko, V. S. - 2942
Yur'ev, B. P. - 2937
Yur'eva, M. K. - 1659
Yurkinskii, V. P. - 2367
Yuzhekevskii, Yu. A. - 1955

Z

Zabrodin, I. N. - 1421, 1527
Zafranskii, Yu. N. - 414
Zagorskaya, Z. G. - 1562
Zagrebina, L. A. - 2468
Zagumennova, T. I. - 2258
Zaidis, E. G. - 1244
Zaiko, V. P. - 2554
Zaitsev, N. B. - 2135
Zaitsev, P. M. - 2376
Zaitseva, A. F. - 1655
Zaitseva, I. G. - 783
Zaitseva, N. K. - 1236, 2192
Zak, A. I. - 2115
Zak, A. V. - 1737
Zakgeim, A. Yu. - 602
Zakharov, E. I. - 1352
Zakharov, I. P. - 513
Zakharov, S. L. - 1555
Zalesskaya, N. P. - 2144
Zapol'skii, A. K. - 29, 970
Zaremko, V. I. - 684, 1785
Zarubitskaya, L. I. - 2472
Zarubitskii, O. G. - 2803
Zaslavets, E. F. - 380
Zasova, V. A. - 2144
Zavgorodnyaya, E. F. - 1072
Zayats, M. N. - 2279
Zdanovskii, A. B. - 1204, 1205, 2218, 2444
Zelenina, E. N. - 1966
Zel'venskii, Ya. D. - 1279
Zenin, G. S. - 1789, 2111
Zernov, V. S. - 1940
Zevin, L. S. - 1008
Zharkov, B. B. - 1132
Zhdanov, Yu. F. - 1
Zhdanova, M. V. - 1290
Zhdanova, R. S. - 131
Zhdanovich, E. S. - 237
Zheleznyak, A. S. - 349, 354, 608
Zhelnin, B. I. - 534, 2291
Zhelnina, G. É. - 2218
Zheltukhin, D. V. - 1250
Zhirnova, V. M. - 1120
Zhukovskii, V. M. - 2269, 2299

Zhuravlev, E. F. - 2539
Zhuravlev, G. I. - 271
Zhurin, A. I. - 1613, 2229
Zigel', V. V. - 771
Zinkevich, Zh. D. - 2210
Zinov'ev, G. N. - 208, 583
Zinyuk, R. Yu. - 1290
Zlateva, D. S. - 1722
Zlotskii, S. S. - 503
Znamenskaya, A. P. - 873
Znamenskii, Yu. D. - 417, 635, 880, 1358
Znamenskii, Yu. P. - 1580
Zolotareva, R. I. - 2815
Zolotov, A. I. - 2220
Zonov, V. A. - 1204, 1205, 1206
Zosimovich, D. P. - 697
Zubar', G. Z. - 2732
Zubov, M. S. - 1089
Zubritskaya, D. I. - 342
Zubtsova, L. I. - 1414
Zueva, A. F. - 1729
Zueva, M. A. - 983
Zvinchuk, R. A. - 1502
Zyablitsev, V. E. - 2122, 2741
Zykova, V. V. - 2104, 2716
Zytner, Ya. D. - 183, 451

JOURNAL OF APPLIED CHEMISTRY
Volume 46, Numbers 1-12, 1973
(A translation of Zhurnal Prikladnoi Khimii)

Volume 46, Number 1, Part 1 January, 1973

	Engl.	Russ.
Study of Some Aspects of the Production of Ammonium Polyphosphates from Orthophosphoric Acid—Yu. F. Zhdanov and R. P. Rilo	1	3
Kinetics of Dissolution of Phosphate—Borate Glasses—R. I. Evstaf'eva, V. S. Bobrov, and M. M. Shul'ts	7	8
Formation of Compounds in Systems of Titanium and Zirconium Nitride Alloys with Hydrogen—G. V. Samsonov and M. M. Antonova	11	13
Study of Coordination of Aluminum in Slag Glasses of the System $CaO-Al_2O_3-SiO_2$ with the Aid of Electron Spin Resonance, and Hydration of These Glasses —S. M. Royak, Ya. Sh. Shkol'nik, V. V. Orlov, and L. A. Orlova	16	18
Sodium Hydroaluminosilicates Formed in the System $Na_2O-Al_2O_3-SiO_2-H_2O$ —O. B. Khalyapina, L. V. Bunchuk, and L. P. Ni	20	22
Magnetic Properties of the System $CdGe(As_xP_{1-x})_2$—L. A. Baidakov, N. I. Kouzova, and É. O. Osmanov	25	28
Thermal Dissociation of the Basic Sulfate $Na_2[Al_6(SO_4)_5(OH)_{10}] \cdot 4H_2O$—V. S. Sazhin, A. K. Zapol'skii, and I. I. Fedoritenko	29	31
Electrical Conductivity of Uranium β-Dioxide Modified by Additions of MgO, SrO, and Nb_2O_5—V. G. Vlasov, V. T. Pis'menko, S. P. Ulyashev, V. N. Shalaginov, and A. R. Beketov	34	36
Determination of the Solubility of Oxygen in Liquids with the Aid of an Electrochemical Detector—B. I. Flis, L. P. Gavrilova, and N. N. Mukhin	38	41
Determination of the Partition Coefficient of Oxygen between Water and Certain Solvents —B. I. Flis and N. N. Mukhin	42	45
Oxidation of Niobium—Titanium—Aluminum Alloys at High Temperatures —É. M. Lazarev, E. V. Vasil'eva, D. A. Prokoshkin, and A. I. Vasil'eva	45	48
Electrochemical Preparation of Thin Magnetic Films Having Special Properties —F. K. Andryuschenko, V. V. Orekhova, and T. I. Gritsenko	49	52
Electrical Properties of Emulsions of Polyethylhydrosiloxane in Water—L. I. Tertykh, Yu. F. Deinega, G. M. Kabysh, Z. R. Ul'berg, and V. P. Vasilenko	53	57
Absorption of Moisture and Carbon Dioxide in Chloride Electrolytes for Sodium Production—K. Ya. Grachev and V. Z. Grebenik	57	60
Synthesis of Nickel Carbonyl from Alloys in the Nickel—Sulfur System—A. Ya. Kipnis and N. F. Mikhailova	60	64
Anodic Process at a Silver Oxide Electrode—I. N. Shuvalova, Z. P. Arkhangel'skaya, and T. V. Fedorova	64	68
Electrodeposition of Gold—Cobalt Alloy from a Citric-Acid Electrolyte —P. M. Vyacheslavov, O. G. Lokshtanova, and L. M. Serebryanskaya	68	72
Thermodynamic Functions of Hydration of Sodium Forms of Macroreticular Sulfonated Resins with Various Contents of Cross-linking Component—V. A. Pasechnik, K. B. Musabekov, and G. V. Samsonov	72	76
Use of Sieve-Plate Equipment for Mass-Transfer Processes in Gas—Solid Systems —I. O. Protod'yakonov, P. G. Romankov, and V. I. Sarzhe	79	82

Use of Data on Heterogeneous Equilibria for Calculating the Heats of Transition of Components and Binary Solutions into Nonideal Vapor — N. P. Markuzin 82 85
Kinetic Relationships in Hydrogenation of Propylene Carbonate — D. N. Grinberg, A. L. Shapiro, E. M. Mikhlina, and S. Z. Levin 87 90
Classification of Diagrams for the Number of Theoretical Plates versus Concentration in Three-Component Systems — Yu. I. Malenko, A. A. Evdokimov, and N. I. Smirnov 93 96
Suspension Velocity of Solid Particles — G. M. Ostrovskii and V. P. Isakov 97 100
Vibrogranulation of Superphosphate — L. B. Geladze, L. V. Gribkova, I. M. Kuvshinnikov, and A. I. Sarakhov 101 104
Influence of Pulsations of the Solid and Medium on Dissolution from a Disk Surface — O. A. Kokushkin, A. A. Baram, V. B. Kogan, and O. K. Fedorov 104 108
Velocity of Bubbling of a Gas in a Liquid — V. A. Uspenskii and V. M. Kiselev 109 113
Extraction Method for Isolation of Concentrated Cymene Hydroperoxide — G. D. Kharlampovich, G. A. Shub, and O. S. Orlova 114 118

Volume 46, Number 1, Part 2 January, 1973

Electron-Exchange Properties of Zirconium "Molybdophosphates" (ZMP) — I. K. Vinter, E. S. Boichinova, and N. E. Denisova 119 121
Dynamic Thermogravimetric Study of Carbonization of Commercial Phenol—Formaldehyde Resins — L. B. Sevryugov, T. G. Plachenov, and M. Ya. Pulerevich 123 125
Study of the Kinetics of Displacement and Thermal-Displacement Desorption of Hydrocarbons from NaX Zeolite — L. N. Evseev and A. A. Seballo 127 130
Dynamic Thermogravimetric Study of Carbonization of Lignins, Lignin Polymers, and Compositions of Lignin with Lignin Polymers — T. G. Plachenov, L. B. Sevryugov, M. Ya. Pulerevich, A. A. Sokolova, and R. S. Zhdanova 131 134
Nature of the Ester Number in Liquid-Phase Oxidation of Aliphatic Ketones — I. I. Rif, V. M. Potekhin, V. A. Proskuryakov, and T. I. Mikheenko 136 139
Synthesis and Properties of Alkylaluminum Etherates — A. F. Popov, M. P. Forost, R. N. Kurbatova, N. N. Korneev, and V. K. Badaev 140 142
Thermal Decomposition of 1-(3,4-Dimethoxyphenyl)-2-(2-methoxyphenoxy)-propanol-1 — A. N. Kislitsyn, Z. M. Rodionova, and V. I. Savinykh 145 147
Synthesis of Monoesters of Arylphosphonous Acids — K. A. Petrov, G. Ya. Legin, and A. Kh. Tsareva 152 152
Identification of Impurities in 3-Methylhexanol-1 by a Combined Chromatographic and Mass-Spectrometric Method — A. N. Aleksandrov, A. S. Rabinovich, S. L. Skop, and S. A. Gorbacheva 154 156
Ternary Copolymers of Vinyl Alcohol, Vinyl Acetate, and Vinyl Alkoxymethyl Ethers — Yu. V. Pokonova and A. M. Dines 158 160
Kinetics of Coagulation of Latices in Collagen-Containing Systems — G. A. Karlina and L. N. Erkova 162 164
Kinetics of Formation of Water-Repellent Coatings from Polyalkylhydrosiloxanes on the Surface of Silica Xerogel — A. A. Pashchenko, L. A. Mikhailenko, and M. G. Voronkov 167 169

BRIEF COMMUNICATIONS

Conditions of Preparation of Titanium and Niobium Nitrides by Reduction of Their Oxides with Carbon in Presence of Nitrogen — G. V. Samsonov and V. S. Polishchuk 171 174
Phase Composition and Dissolution of the Product Formed by Sulfation of Rutilized Ores — L. I. Bekkerman and A. I. Sheinkman 174 176

Interaction of Preheated Chlorine with Stainless Steel at Various Temperatures under Dynamic Conditions – M. I. Ermolaev, P. I. Kondratov, and G. Ya. Berezin 177 178
Isolation of Ferric Chloride from Chloride Sublimates by Distillation – T. S. Shibneva and G. F. Fefelova 179 180
Some Properties of Oxidized Nickel Coatings on Ferrous Metals – A. M. Yampol'skii . . 181 182
Mechanism of Anodic Dissolution of Copper in Ethylenediamine Electrolytes – Ya. D. Zytner and E. A. Maksimyuk 183 183
Deposition of Manganese from Ammonium-Free Electrolytes – I. V. Gamali and G. E. Rybal'skaya 186 185
Electrochemical Behavior of Cadmium–Nickel Alloy Electrodes in KOH Solutions – Yu. M. Pozin and N. K. Terent'ev 189 187
Composition of the Cathodic Metal Formed during Electrolysis of Melts in the System $NaCl–BaCl_2–LiCl$ – E. I. Adaev, I. G. Kitari-Oglu, and A. G. Morachevskii 194 191
Some Features of Electrochemical Polishing of Stainless Steels in Electrolytes with Added Surfactants – V. M. Shtan'ko, P. P. Karyazin, and Ya. N. Lipkin 196 192
Wetting of the Cathode by Metallic Sodium Liberated during Electrolysis of $NaCl–CaCl_2$ Melt – V. Ya. Denishchenko, K. Ya. Grachev, and I. G. Kitari-Oglu 199 195
Electrolytic Reduction of Iron and Titanium in Sulfuric Acid Solution – E. P. Belyakova, A. A. Dvernyakova, and Ya. G. Goroshchenko 202 197
Critical Anodic Current Density in Oxide–Fluoride Melts for Tantalum Production – V. I. Konstantinov and É. S. Matychenko 205 199
Determination of Losses of Urea during Vacuum Evaporation of Its Aqueous Solutions – V. I. Kucheryavyi and G. N. Zinov'ev 208 202
Rheological Properties of Ferric Hydroxide Precipitate in Presence of Polyacrylamide Flocculant – M. B. Radvinskii and A. I. Puchkov 211 204
Contact Conductometric Cell with a Controlled Constant for Direct-Reading Concentration Meters – B. P. Artamonov, M. S. Grilikhes, F. S. Kontorovich, and B. K. Filanovskii 214 206
Synthesis and Investigation of Selective Anion Exchangers Based on Furan Compounds – M. A. Askarov, R. A. Nazirova, and A. T. Dzhalilov 216 208
Liquid–Liquid Phase Equilibrium in the System Water–Acetic Acid–n-Butyric Acid–Methylene Chloride – M. V. Aleksandrova, L. V. Sadovnikova, and T. S. Fedorova 219 210
Infrared-Spectroscopic Study of Boron Phosphate Catalysts – A. A. Kubasov and L. E. Kitaev 222 212
Removal of Dimethylamine from Water by Froth Separation – S. A. Levichev and V. F. Plekhotkin 225 214
Gas-Chromatographic Determination of Methoxy Groups in Fractions of Organic Soil Substances – B. G. Murzakov 228 217
Aralkylation of Phenols with Styrene in Presence of an Aluminosilicate, Kil Clay (Fuller's Earth) – N. N. Alekseev, Ya. N. Borbulevich, I. M. Shologon, and M. K. Romantsevich 230 218
Method of Conversion of Carboxylic Acids into Amides – V. B. Piskov, V. P. Kasperovich, and M. I. Chernyakhovskaya 232 220
Interaction of Isoalkanes with Cyclohexane on Aluminosilicates – B. G. Gavrilov and L. K. Al'pert 234 222
The Binary Systems Pyridoxine Acetal–Water and Pyridoxine Hydrochloride–Water, and Sections of the Ternary System Pyridoxine Hydrochloride–HCl–Water – R. V. Fedorova, P. I. Fedorov, M. V. Balyakina, and E. S. Zhdanovich 237 224
Oxidation of Cyclohexanol by Nitric Acid – G. N. Freidlin, L. A. Golubko, and T. M. Enyutina 240 226
Oxidation of Methylcyclohexane by Atmospheric Oxygen – N. T. Selivanov, V. M. Potekhin, and V. A. Proskuryakov 242 228

Liquid–Vapor Phase Equilibrium in the Ternary System Benzene–Cyclohexane–Toluene under Atmospheric Pressure – L. I. Draiko, A. G. Liakumovich, and L. A. Serafimov 245 230
Liquid–Vapor Phase Equilibrium in the Binary System Furfuryl Alcohol–Tetrahydrofurfuryl Alcohol under Reduced Pressure – Yu. A. Tsirlin and V. A. Vasil'eva 248 232
Influence of Potassium Chloride on Liquid–Vapor Equilibrium in the System Acetone–Water at 760 mm – Z. N. Kupriyanova, V. F. Belugin, and G. B. Shakhova 251 234
Solubilities of Lithium Salts in Acetone and Methyl Ethyl Ketone in the Temperature Range from −50 to + 50°C – B. S. Krumgal'z, V. A. Smirnova, and Yu. I. Gerzhberg 254 237

Volume 46, Number 2, Part 1 February, 1973

Technological Conditions for Production of Titanium and Niobium Nitrides by Reduction of the Oxides with Carbon and Simultaneous Nitriding – G. V. Samsonov and V. S. Polishchuk 257 241
Thermodynamics of Formation of Calcium Sulfate Dihydrate and Calcium Hydrosulfoaluminate in Hardened Concrete – V. I. Babushkin and L. A. Vandalovskaya 263 246
Thermal Decomposition of Crystalline Samarium Oxalate Hydrate – V. V. Dolgov, V. G. Vlasov, and V. N. Shalaginov 267 251
Reduction Processes in Lead Borosilicate Glasses during Heating on Aluminum Supports – A. I. Avgustinik, V. P. Alekseev, and G. I. Zhuravlev 271 256
Some Aspects of the Mechanism of Hardening of Cement Pastes – I. F. Efremov, M. M. Sychev, and O. M. Rozental' 275 261
Kinetics of Potash Alum Dehydration under Isothermal and Nonisothermal Conditions – É. B. Gitis, N. Sh. Safiullin, E. F. Dubrava, and V. F. Annopol'skii 280 265
Composition and Properties of Solid Phases Formed in Systems $Me(NO_3)_3$–Na_2WO_4–H_2O (Me = Al, In) – M. V. Mokhosoev, A. I. Gruba, and A. G. Brekhunets 284 269
Viscosities of Solutions of the Salts NH_4HCO_3, $NaHCO_3$, and NH_4Cl and Ammonia in the 20–100° Temperature Range – E. A. Rashkovskaya and E. G. Bratash 288 273
Phase Composition of Slags from Phosphorus Production – Yu. P. Ballo, M. A. Vapnik, L. A. Ivanovskaya, V. A. Kovarskii, R. G. Lepilina, and Z. G. Fratkin 293 278
Physicochemical Characteristics of Skeletal Catalysts Made from Binary Nickel Aluminides – A. B. Fasman, B. K. Almashev, and V. N. Rechkin 297 282
Dependence of the Rate of Reduction of Nickelous Oxide in the System NiO–Al_2O_3 on the Composition and Method of Preparation – Yu. G. Shirokov 302 287
Polytherm for the System $CO(NH_2)_2$–$CuSO_4$–H_2O – S. N. Ganz, A. V. Karchevskii, and R. I. Braginskaya 306 292
Gallium in Extraction Systems with Carboxylic Acids – I. N. Kremenskaya, Ts. S. Balanevskaya, and I. F. Trofimova 309 295
Influence of Sulfate Ions on Recrystallization of Hydrated Titanium Dioxide during Heating – L. M. Gol'dshtein, A. I. Sheinkman, Yu. Ya. Bobyrenko, V. M. Kasperovich, and V. G. Trofimov 313 299
Influence of Sintering Conditions on Porosity of Nickel Bodies for Nonlaminated Storage-Battery Plates – E. A. Tarasov, F. I. Kukoz, V. N. Fateeva, and N. Ya. Avdeev 316 303
Influence of Passivating Treatment before Deposition of Iron on the Strength of Adhesion – M. P. Melkov and S. N. Stoikov 321 308
Thermodynamic Properties of Liquid Alloys in the Sodium–Mercury System – M. A. Bykova and A. G. Morachevskii 326 312

Protective Properties and Mechanism of Action of Certain Unsaturated Organic Compounds on Corrosion of Steel in Hydrochloric Acid – N. I. Podobaev, É. D. Gasparyan, and L. G. Grigoryan 330 316
Composition of the Electrolyte in the Layer Adjacent to a Platinum Anode in Concentrated Perchloric Acid Solutions – V. A. Vodop'yanova and Yu. I. Kosenkova 334 320
Cathodic Separation of Copper from Spent Etching Solutions – T. A. Balagurova, V. I. Kucherenko, and V. N. Flerov 338 324
Thermal Stability of Complex Cyanides of Iron and Molybdenum and Their Catalytic Activity in Ammonia Synthesis – D. I. Zubritskaya, Yu. A. Lyubchenko, K. N. Mikhalevich, V. M. Litvinchuk, R. V. Chesnokova, K. D. Kon'kov, and V. V. Dovgei 342 329
Oxidation of Methane to Formaldehyde in Fluidized Beds of Alumina–Silica and Promoted Alumina–Silica Catalysts – A. Ya. Averbukh and A. R. Vilenskii . . . 346 333
Statistical Model of Mass Transfer in Extraction Columns with Fine Packing – A. S. Zheleznyak 349 336
Distribution of Certain Higher Alcohols and Hydrocarbons between Aqueous Methanol and Heptane – A. S. Zheleznyak, I. I. Lastochkina, K. F. Monastyrskaya, and A. I. Tsirkina 354 341
Calculation of the Average Diameter of Drops Formed during Mechanical Agitation in Liquid–Liquid Systems – Yu. I. Averbukh, I. S. Pavlushenko, and N. M. Kostin . . 359 346
Methods of Calculating Thermodynamic Properties of Real Gases – M. I. Borisov and P. G. Maslov 364 351
Azeotropic Properties in Ternary Water–Hydrocarbon Systems – A. N. Marinichev and L. A. Vertsman 368 355
Experimental Data on Phase Equilibrium and on Chemical Equilibrium in the Vapor in the System Acetic Acid–Water at 20°, 40°, and 80°C – M. S. Lazeeva and N. P. Markuzin 373 360
Methods of Investigating Thermal Stability of Phosphoric-Acid Cation Exchangers – N. G. Polyanskii, G. Ya. Isaeva, and G. A. Akopov 377 363
Nitration of Dinitro-m-xylene Isomers with Nitric Acid – Ya. I. Leitman, E. F. Zaslavets, and M. A. Ilyushin 380 366

Volume 46, Number 2, Part 2 February, 1973

Reactions of Dibasic Acids with Pentaerythritol – R. A. Kiseleva 385 371
Study of the Activity of Carbon Blacks as Active Fillers for Elastomers – L. I. Devikina, V. G. Korsakov, S. N. Sautin, and A. B. Kusov 389 374
Relationships in Extraction of Xylenols – Ya. I. Korenman 394 380
Synthesis of Poly(o-hydroxyalkylphenyl) Borates – V. I. Isagulyants and V. A. Lapina 398 384
Sequence of Formation of the Main Products of Liquid-Phase Oxidation of n-Decane – A. M. Syroezhko, V. M. Potekhin, and V. A. Proskuryakov 402 388
Thermal Decomposition of Urea at Low Temperatures – R. I. Spasskaya 407 393
Thermocatalytic Reactions of Aromatic Nitro Compounds with Carbon Tetrachloride in the Gas Phase – V. N. Dubchenko 410 397
Some Properties of Hydrolytic Lignin Activated by Acoustic Vibrations – K. K. Delkova, Yu. N. Zafranskii, B. I. Germanov, R. Z. Pen, and A. S. Komalov 414 401
Kinetics of Deep Catalytic Oxidation of Dimethyl Ether in Vapor–Air Mixtures Containing Methyl Methacrylate – Yu. D. Znamenskii and V. P. Balabanov 417 404
Preparation of Monoesters of Arylphosphonic Acids – K. A. Petrov and G. Ya. Legin 421 408
Synthesis of a Polyphenyl Ether Having the Structure of m-Bis(m-phenoxyphenoxy)benzene – O. N. Karpov, T. N. Pliev, L. M. Kapkan, and E. V. Titov 424 411
Properties of a Polyphenyl Ether Having the Structure of m-Bis(m-phenoxyphenoxy)benzene and G. A. Petropavlovskii Acetylcellulose – G. Rakhmanberdiev 429 416

Conversion of 2,6-Di-tert-butyl-4-methylphenol during Heat Stabilization of Hydrocarbons —G. S. Popova 432 419

BRIEF COMMUNICATIONS

Isolation of Germanium from Solutions with the Aid of Gelatin Tannate—A. M. Andrianov and V. P. Koryukova 436 425

Determination of the Congruent Melting Point of Zirconium Nitride—M. A. Eron'yan, R. G. Avarbé, and T. A. Nikol'skaya 440 428

Interaction of Aluminum with Fused KOH—V. K. Shcherbakov and S. I. Kuznetsov 441 428

Kinetics of Volatilization of the Chlorides of Copper, Zinc, Lead, and Nickel —V. S. Sorokina, N. A. Soldatenkova, and I. D. Reznik 444 431

Influence of Creep of Cement Paste under Early Load on Its Porosity—A. V. Satalkin and M. L. Mokhova 448 434

Influence of Additives on Anodic Dissolution of Cadmium in KOH Solution—Ya. D. Zytner, E. A. Maksimyuk, V. A. Nikol'skii, N. I. Alekseeva, and E. A. Berkman 451 436

Interaction of Sulfate Lignin with Dioxane at 40°—L. G. Pilyugina, T. M. Vasil'eva, and K. P. Mishchenko 454 438

Thermochemical Study of the Interaction of Prehydrolyzed Sulfate Cellulose with Aqueous Caustic Soda Solutions—I. I. Osovskaya and N. P. Dymarchuk 457 441

Specific Heats of Aqueous Solutions of Sodium and Potassium Nitrates at Temperatures in the Range 25-340°C—L. V. Puchkov, R. P. Matveeva, and T. L. Baranova 460 443

Allowance for Variability of Parameters in the Dynamics of Transducers with Distributed Parameters—A. M. Azizov 463 445

Cracking of Evaporator Components during Evaporation of Sodium Nitrate Solutions, and Control of This Effect—M. V. Iolko 467 449

Influence of Iron on Liquid-Phase Catalytic Oxidation of Toluene—D. I. Perazich, A. I. Sokolova, and Z. I. Fedina 469 450

Equations Taking into Account the Influence of Product Withdrawal on the Efficiency of a Separating Device—D. A. Nikolaev 471 451

Forming of Sealed Nickel—Cadmium Storage Batteries—Yu. M. Pozin and Yu. S. Golub . . 474 453

Ternary Reciprocal System of Sodium and Potassium Pyrophosphates and Sulfates —E. L. Kozachenko, A. G. Bergman, V. B. Evseeva, and V. V. Keropyan 476 455

Composition and Structure of Aluminate Ions in Alkaline Aluminate Solutions —T. P. Porotnikova, V. A. Derevyankin, S. I. Kuznetsov, M. P. Tsvetkova, and A. K. Chirkov 479 457

Variations of Porosity of Certain Petroleum Cokes during Heat Treatment —A. D. Kokurin, É. A. Kolodin, and V. V. Slitsan 481 459

Influence of Steam and of Certain Halogenated Hydrocarbons on the Diffusion Flame —A. D. Kokurin and V. N. Vinogradov 484 461

Influence of Cupferron, Picric Acid, p-Nitrosodiphenylamine, and p-Nitrosodimethyl-aniline on Corrosion of Titanium Alloy VT1 in Sulfuric and Hydrochloric Acids —E. I. Tupikin and N. G. Klyuchnikov 487 463

Pressures Losses in the Region of Stable Motion of the Mixture in Pneumatic Conveyors —G. M. Ostrovskii, V. P. Isakov, and V. N. Sokolov 490 466

Extraction of Salicylaldehyde in Presence of Salts—Ya. I. Korenman and N. G. Sotnikova . . 494 469

Formation of o-Alkylaminobenzoic Acids by Interaction of o-Bromobenzoic Acid with Amines in Water in Presence of Copper (II)—V. N. Lisitsyn and V. A. Shestakov . 497 472

Influence of Substituents in the Benzene Nucleus on the Solubility of Benzanilide in the System Dimethylacetamide—LiCl — A. A. Fedorov, L. B. Sokolov, and V. M. Savinov 500 474

Homogeneous-Catalytic Isomerization of Cyclic Acetals—D. L. Rakhmankulov, V. I. Isagulyants, and S. S. Zlotskii 503 477

Characteristics of Surfactants in an Alkaline Medium at 100°C—N. P. Shpenzer, N. E. Frantsuzova, B. P. Lyubanskii, and S. L. Talmud 506 479

Volume 46, Number 3, Part 1 March, 1973

Technological Conditions of Interaction of Nitrogen with Magnesium, Titanium, Zirconium, and Niobium Powders and Their Mixtures with Nitrides — G. V. Samsonov and V. S. Polishchuk 509 481
Binding Properties of Compositions Based on Aluminous Clinker Minerals and Calcium Carbonate Hardened under Hydrothermal Conditions — N. F. Fedorov, A. P. Gavrilov, and I. P. Zakharov 513 485
Synthesis of Lead Polysilicates from Silica Gel — R. V. Rak, A. P. Dushina, and V. B. Aleskovskii 517 489
Influence of Preliminary Freezing on Hydration of Cements — O. P. Mchedlov-Petrosyan, A. G. Ol'ginskii, V. I. Chernyavskii, and K. Fol'ke 522 494
Quaternary Reciprocal System of the Fluorides and Oxides of Calcium, Magnesium, and Aluminum — B. M. Nikitin, T. I. Litvinova, and T. F. Raichenko 526 498
Interaction of the β and γ Forms of Calcium Orthosilicate with Water — M. M. Sychev, V. I. Korneev, E. N. Kazanskaya, and I. N. Medvedeva 530 502
Solubility of Calcium Sulfate Dihydrate in Solutions of Manganese Sulfate — B. I. Zhelnin, G. I. Gorshtein, and L. Kh. Bezprozvannaya 534 506
Prediction of the Influence of a Magnetic Field on the Rates of Chemical Reactions — G. P. Visokov and D. G. Ivanov 538 510
Physicochemical Method for Determining the Composition of Four-Component Aqueous Solutions Containing the Chlorides and Nitrates of Potassium and Sodium — N. L. Yarym-Agaev, V. Ya. Rudin, G. I. Onoprienko, and T. A. Tseitlenok 542 514
Extraction of Rhenium into Cyclohexanone — M. M. Privalova, I. I. Lebedeva, and B. D. Selivanova 545 517
Electrical Conductivity of Salts of Quaternary Ammonium Bases (QAB) with Various Anions and the Extraction Series of Anions — V. L. Kheifets, N. A. Yakovleva, and B. Ya. Krasil'shchik 549 521
Composition of the Electrolyte in the Layer Adjacent to a Platinum Anode in Concentrated Sulfuric Acid Solutions — V. A. Vodop'yanova and Yu. I. Kosenkova 552 525
Influence of the Concentration and Nature of the Electrolyte on the Behavior of an Iron Electrode — A. P. P'yankova and Z. A. Iofa 556 529
Study of the Principal Parameters of Electrodialysis of Black Liquor with the Aid of Ion-Exchange Membranes — A. P. Potapenko, G. A. Arestova, and L. A. Gerasimchuk 561 535
Transition Regime of Binary Diffusion of Gases in Porous Media — V. A. Reshetov and I. I. Ioffe 565 539
Ice-Forming Activity of Various Substances — V. G. Morachevskii, N. A. Dubrovich, A. G. Popov, and A. N. Potanin 571 545
Extraction and Purification of Ionium by Sorption from Solutions and Pulps of Various Compositions — L. I. Vodolazov, B. N. Laskorin, L. M. Stepanova, B. P. Surovyagin, and V. V. Shatalov 574 548
Thermodynamic Functions of Mixing in Solutions, Heats of Phase Transitions, and Discussion of the Applicability of Vrevskii's First Law — M. S. Lazeeva and N. P. Markuzin 579 553
Determination of the Decompression Temperature of the Vapor–Liquid Mixture NH_3–CO_2–$CO(NH_2)_2$–H_2O — V. I. Kucheryavyi and G. N. Zinov'ev 583 557
Sorption of Molybdenum by AV-17 Anion-Exchange Resin of Macroporous Structure from Electrochemical Leach Liquors — A. G. Kholmogorov, A. P. Nadol'skii, S. N. Il'ichev, and M. P. Kovaleva 588 561

Joint Influence of External and Internal Diffusion on the Rate of a First-Order Reaction – Ya. S. Snagovskii and E. P. Prokop'ev 592 565
Kinetics and Mechanism of Interaction of Ethylene Glycol with Hydrogen Chloride – V. I. Vigdorovich and I. I. Gorelkin 597 570
Sorption of Elemental Iodine by AV-17 Anion-Exchange Resin from Chloride Solutions – N. V. Lemeshko, V. I. Ksenzenko, and A. Yu. Zakgeim 602 574
Some Aspects of the Theory of Extraction into Two Immiscible Solvents – A. S. Zheleznyak and K. S. Levina 608 580
Preparation of Highly Pure Active Carbons – V. P. Taushkanov, I. A. Kuzin, B. D. Stepin, and Yu. A. Spiridonov 613 584
Preparation of Sulfonate Esters of Lower Alkanesulfonic Acids – V. M. Kostyuchenko, A. I. Gershenovich, E. P. Panov, A. Ya. Kuklinskii, and R. A. Pushkina 617 588

Volume 46, Number 3, Part 2 March, 1973

Proton Relaxation and Self-Diffusion in Oligomers and Crosslinked Polymers – V. P. Fokanov, O. F. Bezrukov, V. P. Budtov, R. P. Stankevich, S. L. Dobychin, and M. S. Vilesova 621 592
Viscosity of Concentrated Solutions of Polyvinyl Butyral – V. A. Stolyarova, A. D. Yakovlev, and I. S. Okhrimenko 625 595
Xylenes as Starting Materials for Synthesis of Pyromellitic Dianhydride – E. P. Babin, V. I. Lozovoi, K. B. Pan'kovskaya, N. A. Goryunova, and N. I. Danilova 629 598
Kinetics of Catalytic Conversion of Dimethyl and Diethyl Ethers, Ethyl Acrylate, Ethanol, and Ethyl Acetate into Carbon Dioxide and Water – Yu. D. Znamenskii, A. Kh, Ruchkova, and G. S. Andreeva 635 604
Study of the Sorption Activity of Lignin Samples with respect to Alcohol Vapors – N. A. Pon'kina, T. M. Vasil'eva, and K. A. Ioileva 639 608
Kinetics of Copolymerization of Styrene with Acrylaminoanthraquinone Dyes during Formation of Structure-Dyed Polymers – G. A. Voloshin, B. G. Boldyrev, and E. I. Sembai 642 611
Synthesis of Alcohols by the Reppe Reaction – N. M. Bogoradovskaya, N. S. Imyanitov, and D. M. Rudkovskii 647 616
Conversion of Alkylaromatic Hydrocarbons in Presence of Nickel–Chromium Catalyst – Ya. R. Katsobashvili, É. I. Él'bert, N. N. Gavrilov, and I. A. Panfilov 650 619
Synthesis of Esters of Higher Dicarboxylic Acids by Amalgam Reduction of the Methyl Ester of ω-Chloropentanoic Acid – A. V. Makogon and V. A. Smirnov 655 624
Study of Methanol Synthesis under Low Pressures – I. V. Dombalov and D. Shishkov . 659 628
Certain Properties of Esters of Alkanesulfonic Acids – E. A Plisko, G. A. Shataeva, and S. N. Danilov 662 631
Study of the Structure of Millet Starch and Its Phosphate Esters – M. S. Dudkin and V. V. Kapustina 666 635

BRIEF COMMUNICATIONS

Study of the Composition of Aluminum–Silicon–Oxygen Complexes in Aluminate Solutions with the Aid of Raman Spectroscopy – T. P. Porotnikova, V. A. Derevyankin, S. I. Kuznetsov, M. P. Tsvetkova, and A. K. Chirkov 670 639
Acid Resistance of Low-Alkali Zinc Aluminosilicate Glasses – V. V. Vargin, V. A. Ivanov, and V. É. Mishel' 673 641

Influence of Carbon on the Solubility of Hydrogen in Steels – Yu. I. Archakov and L. N. Shumakher 677 644
Ternary Reciprocal System of the Fluorides and Oxides of Magnesium and Silicon – B. M. Nikitin, T. I. Litvinova, T. F. Raichenko, and V. A. Voronov 679 646
Isotherm of the System of Sodium Arsenate and Bicarbonate in Water and Solid Phases at 40°C – A. Akbaev 682 648
Vapor Pressures of Aqueous Solutions of NaCl, NaBr, and NaI at Temperatures in the Range 150-350° – V. P. Mashovets, V. I. Zarembo, and M. K. Fedorov ... 684 650
Behavior of the Anion Exchangers AM, AMP, VP-1A, VP-1Ap, and VP-3Ap in Solutions of Sulfuric Acid with Various Contents of Active Chlorine – B. N. Laskorin, L. I. Vodolazov, A. M. Stepanova, and R. I. Gol'tyakova 687 653
Spectrophotometric Determination of Cerium in Titanium–Molybdenum Alloys – K. S. Merkulova and E. S. Bruile 690 655
Determination of Gold and Silver in Crude and Cathodic Copper – D. F. Makarov, Yu. N. Kukushkin, and T. A. Eroshevich 692 656
Behavior of Metallic Nickel in Caustic Alkali Solution – Yu. M. Pozin and Yu. S. Golub. 694 658
Study of pH in the Layer Adjacent to the Cathode during Electrodeposition of Chromium from Sulfate Solutions – K. B. Kladnitskaya, D. P. Zosimovich, and V. N. Belinskii 697 660
Reactions of Copolymers Containing Fluorosulfonyl Groups – S. A. Rostovtseva, N. P. Kulikova, and N. V. Platonova 700 662
Influence of Alkaline Catalysts on Vinylation of Phenols – D. E. Stepanov, N. G. Evsyutina, and L. I. Belousova 702 664
Application of Crystallization Methods of Purification and Purity Determination to Methyl Anthranilate – G. M. Dugacheva, Z. N. Bychkova, and A. G. Anikin ... 705 667
Apparatus for Measuring Viscosities of Liquids at Low Shear Stresses – T. S. Kazakevich, V. L. Kuznetsov, O. S. Chechik, I. P. Ivanov, and G. S. Tikhomirov 708 669
Extractive Separation of ε-Caprolactone–Polycaprolactone Mixtures – L. V. Koroleva, M. I. Kurochkina, Yu. P. Vauchskii, and V. D. Lunev 710 670
Study of Mass Transfer in Zone Melting, with the Aid of the Analogy with Countercurrent Processes – D. A. Nikolaev 712 672
Automatic Adsorber – I. O. Protod'yakonov 715 674
Study of the Effectiveness of Zeolite Suspensions in Adsorption of Carbon Disulfide – V. A. Astakhov, V. D. Lukin, and T. G. Pishchulina 717 675
Calculations Relating to Continuous Drying in Fluidized Beds – V. Yu. Bakrenev, P. G. Romankov, and V. F. Frolov 720 678
Influence of Acetic Acid on Decomposition of Ketohydroperoxides during Oxidation of 6-Hendecanone – I. I. Rif, V. M. Potekhin, and V. A. Proskuryakov 723 680
Extraction of Certain n-Alkylamines from Aqueous Solutions – I. M. Korenman, N. Yu. Gurevich, and T. G. Kulagina 726 683
Adsorptive and Chromatographic Properties of Active Forms of Tripoli – V. T. Bykov, L. V Smirnova, N. E. Shcherbatyuk, and A. A. Vas'kovskaya. ... 729 685
Synthesis of Hexafluoropentanediol – Kh. A. Dobina, I. M. Dolgopol'skii, M. I. Sinaiskaya, S. A. Kamysheva, A. I. Konshin, and L. G. Balashova 732 687
Synthesis and Certain Properties of Di-2-(β-chloroethoxy)ethyl Peroxydicarbonate – Z. S. Smolyan, N. A. Kartashova, L. P. Gabeleva, and D. A. Demidov 735 689
Solubility of Nitrobenzanilides in N,N-Dimethylformamide – L. F. Myasnikova, V. I. Bushinskii, T. I. Frolova, I. L. Vaisman, D. A. Novokshatka, and G. N. Freidlin 738 691
Influence of Esters of Interaction of $3CaO \cdot Al_2O_3$ and $3CaO \cdot SiO_2$ with Water – Yu. S. Cherkinskii and G. F. Slipchenko 741 693
Study of Liquid–Vapor Equilibrium in Binary Systems Containing Caprolactam – V. L. Skorokhodova and V. B. Kogan 746 698

Investigation of Naphthamines with the Aid of Thin-Layer Chromatography
—N. V. Shorygina, N. A. Bukko, and V. S. Savin 747 698

BOOK REVIEWS
Kinetics of Electrode Processes — Reviewed by V. I. Kravtsov 750 701
P. A. Kouzov. Principles of Particle-Size Analysis of Industrial Dusts and Powdered Materials — Reviewed by P. G. Romankov and M. I. Kurochkina... 751 702
G. J. Moody and J. D. R. Thomas. Selective Ion Sensitive Electrodes — Reviewed by E. A. Materova 752 702
P. P. Budnikov and D. N. Poluboyarinov (editors). Chemical Technology of Ceramics and Refractories — Reviewed by M. F. Shur 753 703

Volume 46, Number 4, Part 1 April, 1973

Influence of Certain Factors on the Kinetics of Decomposition of Uranium Oxycarbides —V. G. Vlasov and A. A. Larin 755 705
Influence of Chloride Ions on the Rate of Dissolution of Iron and of Its Hydrated Oxides in Sulfuric Acid—E. I. Vail' and A. M. Khanin 759 708
Certain Properties of Glasses in the Systems $SrO-B_2O_3$ and $BaO-B_2O_3$ —S. S. Kasymova 762 712
Structural Transformations in Beryl Glasses with Additions of Transition-Metal Oxides —I. A. Dmitriev and V. P. Khan 766 716
Low-Temperature Heat Capacity of Glassy Arsenic Selenides—V. V. Zigel' and G. M. Orlova 771 721
Influence of Addition of Nitrite—Nitrate Mixtures on Whiteness of White Portland Cement Clinker—A. N. Grach'yan, Yu. D. Kudryavtsev, N. V. Rotych, and V. K. Tararin 774 724
Study of the Conditions for Preparation of Strontium Titanate from an Aqueous Solution of K_2TiF_6 and $Sr(NO_3)_2$—A. M. Golub, I. I. Voitko, and V. S. Savoshchenko 778 728
Behavior of Copper, Silver, and Gold in Formation and Decomposition of Selenide Solutions—T. N. Greiver and I. G. Zaitseva 783 733
Behavior of Microimpurities during Synthesis of Arsenic Trichloride from the Elements —V. A. Fedorov, É. P. Filippov, V. I. Vasil'eva, A. S. Pashinkin, and E. B. Sokolov. 786 736
Relation between Sorption of Aluminum Ions by Polysilicic Acids (Silica Gel and Quartz) and the Solubility of Sorption Compounds—A. L. Kondrasheva and A. P. Dushina .. 790 740
Vaporization of the Selenides of Arsenic and Thallium—Yu. F. Orlov, E. O. Kurchevskaya, and G. A. Fedorova 795 745
Dispersion of Kaolin in Aqueous Suspensions—S. S. Smetanina, D. V. Tishchenko, and I. S. Sorokin 799 749
Influence of Temperature on Hydration of Tricalcium Silicate—B. S. Bobrov 803 753
Extraction of Scandium and Accompanying Elements from Perchloric Acid Solutions into Tributyl Phosphate—P. G. Berezhko, D. A. Granat, S. S. Korovin, and A. M. Reznik 807 757
Purification of Elemental Phosphorus by Rectification—G. V. Astakhova, S. I. Bokareva, N. D. Talanov, and L. A. Nisel'son 811 761
Measurement of Surface Tension of Alloys in the Systems Cd—Pb and Zn—Bi under Conditions of Mass Transfer—A. A. Ofitserov, A. N. Makarova, and A. V. Vanyukov 815 764
Dependence of the Structure of Aluminosilicates on the Method of Deposition of Alumina —V. R. Gurevich, K. M. Artyunova, V. I. Golikova, and L. B. Abdullaeva 819 769
Investigation and Selection of Cast Aluminum Protective Alloys—E. A. Lyublinskii, N. N. Bibikov, Ya. A. Tsenter, and T. M. Karataeva 823 772

Separation of Multicomponent Electrolytes in Halide Solutions by the Moving-Boundary Method—O. V. Oshurkova, N. S. Lyadov, and I. A. Kozhurkina 826 776
Generation of Electromotive Force during Reduction of Ferric Oxide by Carbon —N. A. Vasyutinskii 829 779
Selection of a Method for Determination of the Energy Equivalent of a Calorimeter Used for Combustion of Organochlorine Compounds—Yu. I. Aleksandrov, B. N. Oleinik, and T. R. Usvyatseva 832 782
Investigation of the Silver Oxide Electrode during Continuous Anodic and Cathodic Polarization under Various Conditions—T. I. Dunaeva, G. P. Ereiskaya, and N. P. Gaivoronskaya 837 787
Internal Stresses in Electrolytic Chromium Deposits Formed in a Sodium Polychromate Electrolyte—A. G. Mokhov, S. S. Savel'ev, and A. A. Proskurnikov 842 793
Electrophoretic Deposition of Electroluminescent Phosphors from Suspensions —B. S. Osipov, O. M. Merkushev, I. S. Lavrov, and V. D. Kravtsov 845 796
Electrophoretic Deposition of Ferric Oxide—Zh. L. Georgiev, R. G. Raichev, P. I. Vodenicharov, and G. I. Volkov 849 800
Investigation of Ni—W Catalysts in Hydrogenation Reactions—I. S. Shvets, D. V. Sokol'skii, N. I. Popov, and F. B. Bizhanov 853 804
Some Aspects of Exchange of Copper (II) and Chromium (VI) Ions on Ion Exchangers in Presence of Surfactants—P. R. Taube and A. G. Baranova 856 808
Reciprocal Solubility in the System $ZnO-P_2O_5-H_2O$ at 25°C—T. M. Kozina and R. G. Lepilina 861 812
Phase Diagram and Physicochemical Properties of the System $FeCl_2-HCl-H_2O$ —M. V. Ionin and A. A. Kozhakova 865 816
Kinetics of Ion Flotation—L. D. Skrylev and K. B. Amanov 868 819
Identification of Low-Boiling Impurities in Hexamethylenediamine—G. A. Mamontova, G. S. Sizova, I. A. Titova, A. P. Znamenskaya, and T. V. Demidova 873 824

Volume 46, Number 4, Part 2 April, 1973

Investigation of Uniformly Porous Silica Gels — N. G. Roslyakova and V. B. Aleskovskii 877 827
Kinetics of Catalytic Conversion of Ethyl Acrylate, Ethyl Acetate, Ethanol, and Diethyl Ether in Multicomponent Vapor—Air Mixtures —Yu. D. Znamenskii and N. A. Kislitsina 880 831
Kinetics of Titanium Dioxide Dissolution in Hydrofluoric Acid — I. I. Baram 883 834
Kinetic Study of Formation of An Amphibole of the Composition $Na_2Mg_6Si_8O_{22}(OH)_2$ — N. I. Nesterchuk and T. A. Makarova 887 838
Dehydration of Sulfate Scale on Heated Surfaces — E. I. Nestrueva and N. M. Chikhladze 890 841
Study of Partial Oxidation of Concentrated Sulfur Dioxide in a Fluidized Catalyst Bed — A. E. Popov, V. S. Epifanov, N. I. Smyslov, and Yu. V. Filatov..... 894 845
Calculation of the Course of Adsorption of a Single Component by a Moving Bed of Adsorbent with a Variable Coefficient of Mass Transfer — E. I. Baranov, Yu. S. Lezin, A. A. Seballo, A. N. Shiryaev, and L. A. Rybkina 897 848
Possible Mechanism of Formation of Maxima on Curves for the Dependence of Dissolution Rates on Agitation — V. V. Malev 902 852
Measurement of the Velocities of Particles of Treated Material in Fluidized-Bed Reactors — V. K. Abramyan, R. Kh. Bekyashev, and G. S. Kuznetsov..... 908 858
Application of the Methods of Mathematical Statistics to Study of the Influence of the Physical Properties of the Components on Mass Transfer during Rectification — A. A. Titov, L. A. Nisel'son, and É. N. Shishko 912 862

Influence of Certain Oxidants on the Total Exchange Capacity of KB-2 Cation-Exchange Resin Containing Various Amounts of Divinylbenzene – I. N. Lipunov, E. I. Kazantsev, and M. P. Kovaleva 917 866

Adsorption of Acetic Acid and Acetic Anhydride from Solutions on Celluloses Differing in Acetylation Rates – I. B. Gorovaya, N. A. Kozlov, and O. G. Tarakanov 921 870

Aldol Condensation of Formaldehyde with Acetaldehyde and Electrochemical Synthesis of Pentaerythritol – V. N. Epimakhov, A. G. Dobkin, and L. V. Volkova 925 874

Adsorption of Methyl- and Ethylamines from Aqueous Solutions – V. F. Plekhotkin, V. P. Musakina, and G. A. Shchegoleva 930 879

Use of Anion Exchangers in Analysis of Sodium cis-β-Chloroacrylate – Z. I. Chalaya and O. M. Voznaya 933 882

Chemical Stability of Oxidized Bau Carbon – V. P. Taushkanov, Yu. A. Spiridonov, I. A. Kuzin, and A. V. Kirsanov 936 884

Intluence of the Composition of the Solvent (Methylene Chloride–Methanol) on Rheological Properties of Solutions of Cellulose Triacetates of Various Molecular Weights – E. N. Khlebosolova, V. G. Golyaev, and N. I. Klenkova 940 888

Mechanism of Methanol Synthesis in Presence of Carbon Dioxide – V. E. Leonov, V. I. Atroshchenko, and M. M. Karavaev 946 894

Dependence of the Stability of the Sodium Ferric Tartrate Complex on Its Concentration – V. V. Fomina, B. A. Moiseev, and M. A. Ivanov 949 897

Spectral Analytical Study of the Course of Gas-Initiated Liquid-Phase Oxidation of Higher Monoolefins – T. N. Pliev, E. V. Lebedev, A. P. Lizogub, N. D. Chelok'yan, and L. A. Bondarchuk 954 901

Liquid–Vapor Equilibrium in Systems Formed by Heptane with Lower Nitroparaffins – T. S. Tolstova, V. B. Kogan, V. M. Fridman, and T. G. Romanova 959 907

Cellulose Phosphinates – A. D. Kiselev, L. I. Kutsenko, and S. N. Danilov 961 909

BRIEF COMMUNICATIONS

Time Dependence of Thermal Conductivity of Cement Grout with Additions of $CaCl_2$ and NaCl – A. A. Klyusov, A. T. Gorskii, and É. N. Lepnev 966 915

Use of Carbon Disulfide As a Sulfidizing Agent in Preparation of Sulfides of Transition Metals – N. V. Vekshina, V. M. Lantratov, and L. Ya. Markovskii . 968 917

Hydrolysis in the System $Al_2(SO_4)_3$–$Fe_2(SO_4)_3$–K_2SO_4–H_2O – L. V. Mar'yanchik, A. K. Zapol'skii, and V. S. Sazhin 970 918

Investigation of Certain Factors Influencing Adhesion of Catalytic Aluminosilicate Coatings to Metals – N. L. Emel'yanenko, A. A. Appen, and R. I. Shagabutdinov. . 973 920

Electrodeposition of Copper–Zinc Alloy from a Tartrate Electrolyte – N. P. Fedot'ev, V. A. Grigor, O. G. Lokshtanova, and G. N. Gergalova 976 922

Hydrolysis of Ferric Ions in Nitrate Solutions at Elevated Temperatures – R. Z. Karimov and Kh. R. Ismatov 980 925

Behavior of Metallic Cadmium in Concentrated Neutral Solutions of Cadmium Chloride and Nitrate – Yu. M. Pozin, E. I. Gamaskin, and M. A. Zueva 983 928

Thermodynamic Study of the Redox System $Na_2S_2O_3 + H_2O$ at Various Temperatures – M. G. Ushakovskaya, N. P. Dymarchuk, and N. P. Novoselov 986 930

Use of the Magnetochemical Effect for Measuring Intensities of Strong Constant Magnetic Fields – V. P. Chirkov 988 932

Liquid–Vapor Equilibrium in the System Allyl Chloride–Allyl Bromide – A. G. Muradyan, N. M. Morlyan, and A. M. Gabrielyan 990 933

Measurement of Diffusion Coetficients in the System Benzene–n-Heptane with a Polarization Interferometer Using a Gate-Valve Cell – A. B. Porai-Koshits, N. V. Penkina, V. M. Olevskii, and S. S. Potorzhinskaya 992 934

Selection of Reaction Conditions in a Study of Preparation of Mucochloric Acid by Chlorination of Furfural – N. M. Burmakin, L. M. Kogan, and M. Yu. Berman 995 936
Principal Relationships of a Continuous Process for Production of Mucochloric Acid by Chlorination of Furfural – N. M. Burmakin, L. M. Kogan, and M. Yu. Berman 997 938
Resolution of Racemic Oxides of Methyl Esters of 6-Octadecenoic Acids into Optical Enantiomers with the Aid of Urea – I. L. Kuranova and L. V. Balykina 999 939
Kinetics of Acetophenone Hydrogenation – N. S. Barinov and D. V. Mushenko 1001 940
Determination of the Upper Boundary of Molecular-Weight Distribution of Polyvinyl Alcohol – A. Ya. Sorokin and V. A. Kuznetsova 1003 942
Synthesis of Succinonitrile from Acrylonitrile and Acetone Cyanohydrin – S. V. Vinogradova, M. A. Andreeva, and V. V. Korshak 1005 944
Study of the Products of Interaction of Calcium Nitrate and Nitrite with Calcium Hydroxide at Temperatures below 0°C – T. I. Rozenberg, V. I. Medvedeva, G. D. Kucheryaeva, O. I. Gracheva, and L. S. Zevin 1008 946

BOOK REVIEWS

A. G. Amelin. Sulfuric Acid Technology – Reviewed by I. P. Mukhlenov and G. V. Vel'chenko 1011 949
Editorial Board: É. I. Antonovskaya, V. M. Berenblit, V. A. Vodop'yanova, V. S. Zotikov, A. L. Labutin, A. A. Pozdeeva, and A. M. Sukhotin (Editor-in-Chief). Corrosion and Protection of Chemical Equipment, Reference Manual – Reviewed by V. V. Skorchelletti 1013 950
B. Gajek, L. Ensovsky, and V. Klimešova. Problems in General and Inorganic Chemistry – Reviewed by Yu. Kukushkin and Z. Gol'braikh 1015 951

Volume 46, Number 5, Part 1 May, 1973

Activation of Beryllium by Chloride and Sulfate Ions – V. V. Gerasimov and É. T. Shapovalov 1017 953
Selection of Catalyst for Catalytic Oxidation of Hypophosphite – É. M. Morgunova and A. S. Shubin 1021 957
Synthesis and Properties of Bifunctional Cyanoalkyl Derivatives of Silicon – A. I. Ponomarev and A. L. Klebanskii 1024 960
Determination of Chemically Bound OH Groups in Hydrated Titanium Dioxide – Yu. D. Dolmatov and G. L. Rogachevskaya 1028 964
Equilibrium Pressure of Oxides over Nitroses Containing Free Nitric Acid – I. E. Ioshpa, A. A. Peretrutov, P. P. Kim, V. P. Krivonogov, and L. I. Rybakova 1031 967
CaO Balance in Compounds of Portland Cement Clinker – V. I. Korneev, M. M. Sychev, and G. N. Kas'yanova 1036 973
Relationship between Phase Composition and Properties of Glass-Ceramic Coatings in the System $R_2O-ZnO-P_2O_5-SiO_2$ – B. Z. Pevzner 1039 976
Investigation of the Systems $3CaO \cdot Al_2O_3-Ca(NO_3)_2-H_2O$ and $3CaO \cdot Al_2O_3-Ca(OH)_2-Ca(NO_3)_2-H_2O$ – T. I. Rozenberg, É. D. Breitman, V. M. Kazanskii, and O. I. Gracheva 1044 980
The System $Na^+, Cs^+ \| Cl^-, NO_3^- - H_2O$ at 0, 25, 50, and 90°C – S. M. Arkhipov, N. I. Kashina, and I. F. Poletaev 1048 985
Investigation of Equilibria in the System $FeCl_2-HCl-H_2O$ – V. D. Franke, Yu. N. Paputskii, E. B. Treivus, and L. I. Gorelik 1052 989

Viscosities of Lithium, Sodium, and Potassium Hydroxide Solutions at Temperatures up to 275°C – V. P. Mashovets, L. V. Puchkov, P. M. Sargaev, and M. K. Fedorov 1055 992
Kinetics of Sorption of Certain Metal Ions on Zirconium Molybdophosphate – I. K. Vinter, E. S. Boichinova, N. E. Denisova, and R. B. Chetverina..... 1059 997
Influence of Active Components on the Rate of Phase Transitions of γ-Al_2O_3, the Support for Alumina Catalysts – N. S. Kurkova, Ya. R. Katsobashvili, and N. A. Akchurina 1064 1002
Equilibrium Concentrations of Iron Chlorides in Melts of Chloride Salts – D. P. Baibakov, A. B. Bezukladnikov, and É. Ya. Tarat..... 1069 1007
Cathodic Reduction of Cadmium Hydroxide – V. P. Galushko, E. F. Zavgorodnyaya, N. V. Podol'skaya, and L. A. Boiko 1072 1010
Theory of Electrochemical Synthesis of Sodium Chlorate – V. A. Shlyapnikov 1076 1014
Crystallization of Chromium on the Cathode during Electrolysis of Chloride Melts – Val. G. Gopienko, V. G. Gopienko, S. N. Shkol'nikov, and E. F. Klyuchnikova 1080 1018
Study of the Products of Aluminum Corrosion in Concrete – A. M. Podval'nyi, Z. M. Larionova, L. A. Mitrofanova, N. P. Turunovskaya, O.S. Volkov, and L. V. Nikitina..... 1084 1023
Determination of the Stability of Effective Action of Surfactants on Electrodeposition of Metals – M. S. Zubov and A. T. Vagramyan 1089 1028
Sorption of Iron Ions by Silica Gel from Acetate Buffer Solutions – A. L. Kondrasheva and A P. Dushina 1092 1031
Outline Model of Interactions of Solids with Solutions – V. G. Korsakov 1096 1035
Intensive Drying of Air in a Combined Bed – A. N. Shiryaev, L. A. Rybkina, and A. A. Seballo 1100 1038
Holdup and Drop Size in a Centrifugal Extractor with Corrugated Disks – I. I. Ponikarov, V. V. Kafarov, and Yu. A. Dulatov..... 1103 1041
Calculation of the Hydraulic Resistance of a Vertical Wetted Contact Grid – I. P. Filippov, L. G. Girgor'yan, I. A. Shuplyak, and M. F. Mikhalev..... 1107 1045
Calculation of Reaction-Rate Constants by a Method Based on Finding the Roots of a Quadratic Polynomial – A. A. Bezdenezhnykh, V. M. Vishnyakov, and O. P. Khomenya 1111 1050
Analysis of Kinetics in a Solid–Liquid System in a Semicontinuous Reactor of the Mixing Type – A. I. Volzhinskii, O. A. Galkin, N. N. Smirnov, and P. G. Romankov 1116 1054
Some Characteristics of the Reactions of Ferric Oxide with Aromatic Hydrocarbons Present in the Products of Thermolysis of Solid Fuels – V. V. Korzin, V. M. Zhirnova, I. I. Lishtvan, and A. V. Ogurtsov 1120 1058
Temperature Effects in Extraction of Sexivalent Molybdenum into Di(2-ethylhexyl)phosphoric Acid from Acid Solutions – A. A. Palant and V. A. Reznichenko..... 1124 1062

Volume 46, Number 5, Part 2 May, 1973

Solubility of Thiamine Bromide in the System Water–Ethyl Alcohol at Various Temperatures – E. M. Strel'tsova, E. S. Slivchenko, and I. K. Khludenev 1129 1066
Influence of Heating on Properties of Platinized Alumina Catalysts – B. B. Zharkov, G. N. Maslyanskii, N. E. Buyanova, V. T. Rybak, and A. Z. Rubinov 1132 1068
Study of the Kinetics of Styrene Polymerization in an Emulsion with a Nonionic Surfactant – K. N. Makovetskaya, É. S. Avrushchenko, V. N. Beresnev, and N. I. Smirnov 1135 1071

Mutual Solubility of the Components in the System Acetonitrile–Dodecyl Alcohol–Glycerol – V. P. Sazonov and L. V. Gudkina 1140 1076
Amination of Aromatic Compounds with Hydroxylamine Hydrochloride – R. I. Fedorova, I. V. Obydennova, V. V. Mitina, and Ya. M. Paushkin 1143 1079
Interaction of Hydrogen Chloride with Certain Monohydric Alcohols – V. I. Vigdorovich and I. I. Gorelkin. 1146 1083
Investigation of the Physicochemical Properties of Macroporous Phosphoric Acid Cation Exchangers – N. G. Polyanskii, G. A. Akopov, G. Ya. Isaeva, and V. V. Stakhanova 1150 1086
Isomerization of Isobutylene Oxide into Methallyl Alcohol – M. I. Farberov, A. V. Bondarenko, T. V. Tsilyurik, and V. M. Obukhov 1154 1091
Acidic Properties of Alkylhydroxamic Acids and Thionocarbamates (Flotation Agents) – V. I. Ryaboi, V. A. Shenderovich, and N. E. Shchukina 1158 1095
Thermal Stability of Derivatives of Sorbate Esters – V. S. Markevich 1162 1099
Changes of Certain Properties of Cellulose during Aging – Z. N. Medved', N. A. Kozlov, and O. G. Tarakanov. 1166 1103
Hornification of Cellulose and Methods for Its Prevention – S. L. Talmud, V. A. Kokushkina, and L. P. Kogan 1171 1108

BRIEF COMMUNICATIONS

Cementation (Contact Precipitation) of Indium from Alkali and Alkaline Sulfide Solutions by Sodium Amalgam – A. G. Barikov and V. P. Gladyshev 1175 1112
Selection of the Optimal Conditions for Anodic Oxidation of Amalgams in Mixed Electrolytes – V. P. Gladyshev and K. Ya. Geinrikhs 1177 1114
Thermal Decomposition of Ammonium Perrhenate with Formation of Rhenium Heptoxide – V. I. Bibikova, I. I. Vasilevskaya, A. G. Vasil'eva, and L. A. Nisel'son 1179 1115
Use of Zirconium "Molybdophosphate" (ZMP) for Concentrating and Separating Certain Metal Ions – I. K. Vinter, E. S. Boichinova, N. E. Denisova, and R. B. Chetverina 1181 1117
Electromigration of Ions in Melts of the Systems Na_2O–MoO_3 and Na_2O–WO_3 – I. A. Ivanov, D. A. Musakin, and V. P. Shvedov. 1185 1120
Corrosion of Zinc in Solutions of Ammonium Chloride and Other Chlorides – L. A. Shopen and I. P. Anoshchenko 1187 1122
Study of the Microstructure and Phase Composition of the System NaCl–$CrCl_2$ – Val. G. Gopienko, S. N. Shkol'nikov, and E. F. Klyuchnikova. 1189 1123
Influence of Hydrogen-Ion Concentration on Ion Flotation – L. D. Skrylev and K. B. Amanov 1191 1124
Oxidation of Phosphine by Oxygen in Presence of Cupric–Cuprous Iodide–Bromide Catalyst – D. V. Sokol'skii, Ya. A. Dorfman, and L. S. Érnestova. 1194 1127
Some Relationships of Chemical Interaction on the Solution Surface during Absorption of a Gas – I. P. Lychkin and D. T. Azaryan. 1197 1130
Dust Collection in an Apparatus with Wetted Fluidized Spherical Packing – É. Ya. Tarat, V. S. Burkat, and V. S. Dudorova 1201 1133
Study of Solubility, Density, Viscosity, and pH of a Saturated Solution of Ulexite in Hydrochloric Acid – A. B. Zdanovskii, V. A. Zonov, and V. V. Serdyuk 1204 1136
Kinetics of Dissolution of Potash Alum and Vapor Pressure of Water over Its Saturated Solutions – S. S. Odokienko and V. V. Serdyuk 1204 1136
Kinetics of Decomposition of Inderite, Kaliborite, and Preobrazhenskite in Hydrochloric Acid Solutions – A. B. Zdanovskii, V. A. Zonov, and V. V. Serdyuk 1205 1136
Kinetics of Decomposition of Kaliborite and Preobrazhenskite in Phosphoric Acid Solutions – A. B. Zdanovskii, V. A. Zonov, and V. V. Serdyuk. 1205 1137
Study of Solubility, Density, Viscosity, and pH of Phosphoric Acid Solutions Saturated with Ulexite – A. B. Zdanovskii, V. A. Zonov, and V. V. Serdyuk . . . 1205 1137

Engl./Russ.

Diffusion Coefficients and Kinetics of Dissolution of Ammonium and Potassium Dihydrogen Phosphates – V. A. Zonov and V. V. Serdyuk 1206 1137
Influence of the Initial Hydroperoxide Concentration on the Kinetics of Decomposition of 1-Methylcyclohexyl Hydroperoxide – M. N. Puring and V. A. Itskovich 1207 1138
Sulfation of Chitosan Films and Study of Their Anticoagulant Action in Vitro – I. G. Kochnev, V. M. Molodkin, B. V. Mchedlishvili, and E. A. Plisko 1210 1141
Density and Viscosity of Acetone and Methyl Ethyl Ketone at Temperatures below 0° – A. A. Terent'eva, B. S. Krumgal'z, and Yu. I. Gerzhberg 1213 1143
Technology of Electrodeposition of Tombac from a Tartrate Electrolyte – N. P. Fedot'ev, V. A. Grigor, O. G. Lokshtanova, and G. N. Gergalova 1215 1144
Hydrothermal Stability of Zeolites – A. N. Shiryaev, V. F. Karel'skaya, T. G. Plachenov, L. A. Rybkina, and A. A. Seballo 1218 1146
Convenient Method for Preparation of Dimethyldichlorostannane – V. I. Shiryaev, É. M. Stepina, L. V. Makhalkina, and V. F. Mironov 1221 1149
Stability of the Products of Oxidative Phosphonation of Polyolefins – G. F. Karkozova, A. G. Sirota, S. G. Lyubetskii, A. L. Gol'denberg, M. D. Pukshanskii, and V. A. Kolyaseva 1222 1149
Chromatographic Determination of Menthol – G. P. Tikhomirova and V. I. Kalitvyanskaya 1225 1152
Polydispersity of the Aromatic Copolymer Poly(m-, p-phenyleneisophthalamide) – A. I. Ageev, O. I. Nachinkin, D. Ya. Pozdnyakova, I. G. Ruban, A. F. Smirnov, and O. S. Sorokin 1227 1153
Antagonistic Effect in Extraction of Certain Phenols into Solvent Mixtures – Ya. I. Korenman 1229 1155
Integral Heats of Solution of Alkali Salts of Mononitroalkanes in Water – V. F. Selivanov, S. S. Odokienko, and B. V. Gidaspov 1232 1157
Integral Heats of Solution of Polynitroalkane Salts in Water – V. F. Selivanov, S. S. Odokienko, and B. V. Gidaspov 1232 1157
Influence of Cations on the Integral Heats of Solution of Salts of Nitroform and 1,1-Dinitroethane in Water at 25° – V. F. Selivanov, S. S. Odokienko, and B. V. Gidaspov 1233 1158
Vapor Pressures of Aqueous Solutions of Nitroalkane Salts – V. F. Selivanov, S. S. Odokienko, and B. V. Gidaspov 1233 1158
Synthesis of Bisiminoacetates – V. V. Trezvov and V. G. Shelgaeva 1234 1158
Use of SKT and BAU Oxidized Carbons as Catalysts in Reduction of Aromatic Nitro Compounds by Hydrazine Hydrate – T. F. Stepanova and O. F. Ginzburg 1235 1159
Structure of Methyl Methacrylate–Vinylene Carbonate Copolymers Prepared by a Radiation-Chemical Method – N. K. Zaitseva, O. M. Klimova, and V. V. Kostenko 1236 1160
Repeated Use of Spent Ion Exchangers – I. V. Samborskii, V. A. Vakulenko, and L. N. Pedikova 1239 1162
Selectivity of Solvents in Separation of Organic Sulfides and Hydrocarbons – M. F. Bondarenko, Z. I. Abramovich, M. A. Pais, and É. A. Kruglov 1241 1163
Purification of Naphthalene by Treatment with Bleaching Powder – B. E. Kogan, V. M. Bednov, G. G. Ikonnikova, E. G. Zaidis, I. B. Evzel'man, N. D. Rus'yanova, A. S. Kostromin, and L. F. Lipatova 1244 1165
Vinylation of Monochlorotoluenes and Measurement of the Dielectric Characteristics of Films Made from Vinyl Aryl Ether Polymers – V. P. Pivnenko 1246 1167
Alkylation of Phenol by Polymer Distillate in Presence of Esters of Polyhydric Alcohols – A. S. Fedotov and A. E. Drabkin 1248 1168

BOOK REVIEWS

M. I. Chudakov. Industrial Utilization of Lignin – Reviewed by D. V. Zheltukhin ... 1250 1170
B. Mason (editor). Handbook of Elemental Abundances in Meteorites – Reviewed by M. I. Kurochkina 1252 1171

T. Török and K. Zimmer. Quantitative Evaluation of Spectrograms by Means of l-Transformations – Reviewed by M. I. Kurochkina 1253 1171
B. V. Nekrasov. Textbook of General Chemistry – Reviewed by V. P. Shishokin. ... 1254 1172
A. M. Ozerov, A. K. Krivtsov, V. A. Khamaev, V. T. Fomichev, and V. V. Samanov. Nonstationary Electrolysis – Reviewed by E. B. Eron'ko and A. L. Rotinyan 1256 1173
G. J. Janz, U. Krebs, H. F. Siegenthaler, and R. P. T. Tomkins. Molten States. Volume 3. Nitrates, Nitrites, and Mixtures. Electrical Conductance, Density, Viscosity, and Surface Tension Data – Reviewed by A. G. Morachevskii 1257 1173
A. B. Zdanovskii. Halurgy – Reviewed by V. K. Garkun and M. E. Pozin. 1259 1174

Volume 46, Number 6, Part 1 June, 1973

Investigation of Conditions for Formation of Ruthenium Borides – G. V. Samsonov and V. A. Kosenko 1261 1177
Interaction of Metallic Titanium with Titanium Tetrachloride at 1100-1450°C – I. Ya. Pishchai and Ya. G. Goroshchenko 1264 1180
Semiceramic Vitreous Enamels – B. Z. Pevzner, A. A. Appen, and E. A. Antonova 1268 1184
Sintering of Mixtures of Tricalcium Phosphate with Alumina – S. V. Kushnir and V. P. Dubrovskii 1271 1188
Colloidal Solutions Formed during Hydration of Portland Cement, and Some Methodological Characteristics of Their Study – Yu. M. Butt and G. V. Topil'skii .. 1275 1191
Some Physicochemical Properties of Solutions of Inorganic Compounds in Liquid Ammonia – V. M. Bakin and Ya. D. Zel'venskii 1279 1195
Regeneration of Spent Co–ZrO_2–MgO–Kieselguhr Catalyst for Synthesis of Hydrocarbons from Carbon Monoxide and Hydrogen – A. N. Levkovich, T. F. Bulanova, M. M. Levkovich, A. L. Lapidus, and Ya. T. Éidus 1283 1199
Ultrasonic Study of the Influence of Magnetic Treatment of Aqueous $CaCl_2$ Solutions on the Degree of Ion Hydration – V. S. Dukhanin and N. G. Klyuchnikov 1287 1204
Some Thermodynamic Characteristics of Mixed Solutions of Sulfuric and Phosphoric Acids – R. Yu. Zinyuk and M. V. Zhdanova 1290 1206
Equilibrium in Sorption of Transition Metals from Solutions of Their Ammines by Anion Exchangers – V. D. Kopylova, G. D. Asambadze, L. P. Karapetyan, K. M. Saldadze, É. G. Gintsberg, and B. M. Kovarskaya 1294 1210
Chemistry and Mechanism of Action of Agents Improving Adhesion – I. Porubszky and O. K. Dobozy. 1298 1214
Dielectric Measurements at the Early Stages of Hardening of Monomineral Cements – L. B. Svatovskaya and V. G. Shiballo 1302 1219
Experimental Determination and Calculation of Thermal Conductivity of Liquors of the Ammonia–Soda Process – E. I. Chernen'kaya and G. A. Vernigora 1306 1224
Adhesion of Magnesium Hydroxide to the Surface of Transformer Steel – L. N. Kalitina, T. F. Kul'kova, L. G. Olert, and T. A. Ust'yantseva 1310 1227
Combustion (Wear) of a Graphite Anode under Conditions of Simultaneous Discharge of Chlorine and Oxygen at a High Temperature – G. N. Kokhanov and R. A. Agapova .. 1314 1231
Study of Electrodeposition of Gold from Ferrocyanide Electrolyte – P. M. Vyacheslavov, E. G. Kruglova, O. G. Lokshtanova, and S. I. Shchegoleva 1317 1234
Optimal Operating Conditions of an Electrochemical Metering Feeder for Nitric Oxide (NO) – Kh. I. Agranov, V. V. Aleksandrov, and L. A. Belozerova 1321 1238
Structure and Physicochemical Properties of Electrolytic Silver–Palladium Alloy Deposited from Pyrophosphate–Thiocyanate Electrolyte – B. M. Kramer 1325 1242
Interaction of Carboxyl-Containing Copolymers with Metal Oxides in Solutions and Films – A. M. Frost, I. A. Kolosentseva, and V. V. Razumovskii 1329 1246

Wear of Graphite Anodes during Electrolysis of Sodium Chloride Solutions with the Use of Mercury Cathodes – A. L. Gol'dinov, M. A. Gorovits, and G. G. Smirnova 1332 1249
Influence of Tableting Pressure on Activity of Vanadium and Nickel–Chromium Catalysts – N. Kh. Valitov, F. Kh. Ibragimov, and I. Kh. Kutlugizhina 1337 1253
Calculation of Thermodynamic Characteristics of the H–C–N System for Conditions of Synthesis of Compounds in Plasmatrons with Expendable Graphite Electrodes – N. K. Aleksandrov, S. N. Ganz, V. D. Parkhomenko, and V. P. Goloborod'ko. 1341 1256
Study of Artificial Aging of Thin Anodic Oxide Films on Aluminum – M. A. Chernykh and N. E. Markova 1345 1260
Kinetics of Treatment and Heating of an Enlarged Model of Adsorbent Grains Undergoing Convective Desorption – M. K. Kuatbekov, P. G. Romankov, and V. F. Frolov. 1349 1265
Study of Hydrodynamics and Efficiency of a Pulsed Column with "Krimz" Plates in Operation with an Amine System – S. M. Karpacheva and E. I. Zakharov 1352 1268
Parametric Sensitivity and Stability of a Tray Reactor for Catalytic Purification of Waste Gases From Ethyl Acrylate Production – Yu. D. Znamenskii 1358 1274
Determination of the Service Life of KB-51 Cation-Exchange Resin in Aggressive Media – I. N. Lipunov, V. A. Vakulenko, Z. D. Amelina, and E. I. Kazantsev 1361 1276
Influence of Solubilization of Ciodrin on Average Micellar Weights in Aqueous Solutions of the Nonionic Surfactant OP-7 – V. A. Belyaeva, A. I. Terekhova, and T. G. Bondarenko. 1365 1280
Use of Chromatographic and Potentiometric Methods for Analytical Control of the Synthesis Stage of Calcium Pantothenate – S. L. Belen'kaya, G. P. Tikhomirova, and L. A. Prokhorenko 1368 1282
Study of Kinetic Relationships in Chlorination of Granules Made from Titanium-Containing Concentrate and Coke – A. P. Masterova and M. I. Levin 1372 1286

Volume 46, Number 6, Part 2 June, 1973

Interaction of Phosphite Esters with Derivatives of Quadrivalent Titanium –A. G. Akhmadullina, É. G. Yarkova, N. A. Mukmeneva, P. A. Kirpichnikov, A. A. Muratova, and A. N. Pudovik 1377 1291
Study of the Kinetics of Acrylamide Polymerization in Presence of $K_2S_2O_8$–Na_2SO_3 –L. A. Lavrova, N. P. Dymarchuk, and K. P. Mishchenko 1380 1294
Heats of Interaction of Cellulose Materials with Cadmium Ethylenediamine Complex –Yu. A. Krylatov and T. A. Tumanova 1383 1297
Separation of Zirconium and Hafnium Thiocyanate Complexes by Extraction Into Neutral Organophosphorus Compounds (NOPC)–E. A. Pepelyaeva, O. A. Sinegribova, N. A. Shostenko, and G. A. Yogodin 1387 1301
Extraction of Guaiacol from Aqueous Solutions–Ya. I. Korenman 1391 1305
Hydrogenation of o-Nitrophenol on Promoted Raney Catalysts–N. I. Popov, D. V. Sokol'skii, F. B. Bizhanov, and I. S. Shvets 1395 1309
Free-Radical Decomposition of Methylcyclohexyl Hydroperoxides in Presence of Alkali-Metal Stearates–P. A. Smirnov, A. M. Syroezhko, and V. M. Potekhin ... 1399 1314
Kinetics of Formation and Conversion of Decanol-2 and Decanol-4 during Liquid-Phase Oxodation of n-Decane by Air–A. M. Syroezhko and V. M. Potekhin 1403 1318
Preparation of Carboxylated Carbon Fibers and Study of Their Structure –R. N. Sviridova, M. Z. Gavrilov and I. N. Ermolenko 1407 1322
Sorbability of Chloro Derivatives of Benzoic Acid under Static Conditions –I. K. Tsitovich and E. I. Semenova. 1410 1325
Conversions of Dialkyl Phosphites in Synergic Mixtures with Inhibitor MB-1 during Inhibited Oxidation of Decane – L. V. Novoselova, L. I. Zubtsova, V. G. Babel', and V. A. Proskuryakov 1414 1329

BRIEF COMMUNICATIONS

Interaction of Nitric Acid with Sulfur Dioxide—M. V. Lobova, V. S. Epifanov, and N. I. Smyslov 1418 1334

Conditions of Preparation, Composition, and Properties of the Sulfate of Titanium (IV) and Iron (III) — L. I. Bekkerman, I. N. Zabrodin, and A. I. Sheinkman 1421 1336

Purification of Sulfur from Calcium Compounds, Sesquioxides, and Inorganic Residue —T. G. Akhmetov and V. A. Adnashova 1424 1338

X-Ray Microprobe Study of Solid Solutions in the System Y_2O_3—HfO_2—SiO_2 —N. S. Andrushchenko, V. N. Parfenenkov, and R. G. Grebenshchikov 1427 1340

Investigation of the Structure of Fluophosphate Glasses—M. L. Petrovskaya 1430 1342

Some Characteristics of Crystallization of Ammonium Titanyl Sulfate from Unstirred Sulfuric Acid Solutions—É. A. Obolenskaya and E. V. Khamskii 1434 1346

Quantitative Determination of Iridium by the Thioacetamide Method in Sulfate Solutions in Presence of Copper, Iron, and Nickel—Yu. N. Kukushkin, S. A. Simanova, and G. P. Gur'yanova 1436 1348

Interaction of Calcium Ferrites with Soda—Alkali Aluminate Solution—I. V. Egorova, E. I. Khazanov, and E. V. Portyannikova 1439 1351

Solubility of Water in Aluminate Melts—V. A. Kalmykov, R. L. Markaryan, and G. A. Kurbatov 1441 1352

Mutual Solubility in the System $NaNO_2$—$NaNO_3$—H_2O at High Temperatures —Ya. S. Shenkin and T. V. Alekhina 1443 1354

Extraction of Phosphomolybdic Acid from Aqueous Solutions by Froth Flotation of Hydrophobic Precipitates—A. F. Nikiforov, O. V. Evtyukhova, V. G. Berezyuk, and V. V. Pushkarev 1445 1355

Behavior in Solutions of Cadmium Salts of Sintered Nickel Plates Containing Metallic Cadmium in Their Pores—Yu. M. Pozin, and A. M. Krichevskaya 1449 1358

Thermodynamic Activity of Magnesium Chloride in the System $MgCl_2$—KCl—LiCl —P. A. Donskikh and V. N. Devyatkin 1452 1360

Influence of the Support on Activity of Vanadium Catalysts for Oxidation of Sulfur Dioxide—A. Simecek, V. Gulinsky, and J. Vosolsobe 1455 1362

Cathode Polarization during Electrolytic Production of Magnesium—P. V. Polyakov O. A. Lebedev, and G. A. Kotel'nikova 1458 1365

Conversion of Potassium Tetraphenylborate into Sodium and Lithium Tetraphenylborates in Presence of KU-2 Cation-Exchange Resin in Mixtures of Acetone and Water—V. P. Kozitskii 1460 1367

Direct Method for Calculation of Rates of Molecular Flow and Its Practical Application to Effusion Measurements—P. I. Ozhegov and Yu. A. Surkov 1462 1368

Liquid—Vapor Equilibrium in the System Methyl Cyclopropyl Ketone—Water —V. M. Komarov, A. V. Boldyrev, and R. S. Pelevina 1465 1371

Solubility, Density, and Viscosity in the System Polyphosphoric Acids (PPA)—K_2SO_4—H_2O—P. M. Bugai and R. A. Eremenko 1467 1372

Determination of the Number of Theoretical Plates for Water Stripping of Rubber Solutions—N. N. Slutsman, V. O. Reikhsfel'd, and B. V. Mamontov 1470 1375

Various Kinetic Regions of Mass Transfer in Liquid—Liquid Systems —S. K. Kalugina, M. V. Ostrovskii, and A. A. Abramzon 1473 1378

Kinetics of Hg:Na and Hg:H Exchange on KB-4P-2 and KU-2 Cation-Exchange Resins —N. U. Rizaev, V. M. Polonskii, U. A. Saidakhmedov, I. P. Dolgopolov, and M. Arslanov 1476 1380

Interaction of Methyl Anthranilate with Its Natural Impurities—G. M. Dugacheva and Z. N. Bychkova 1478 1382

Thermodynamic Properties of Binary Systems of Hexafluorobenzene with Hydrocarbons —E. V. Komarov, I. V. Kogan, and A. G. Morachevskii 1481 1384

Dielectric Constants of Certain Essential Oils—V. V. Panenko, V. A. Shlyapnikov, and S. B. Morozova 1483 1385

Dependence of the Properties of Partially Acetylated Hydrate Cellulose Fibers on the Degree of Fungal Damage – E. A. Abramova, I. G. Kanevskaya, and O. Ya. Bufetchikova. 1486 1387
Condensation of o-Phenylenediamine with Naphthoic and Heterocyclic Acids in Presence of KU-2 Cation-Exchange Resin – V. I. Isagulyants and N. M. Anufrieva 1489 1389
Polyvinyl Alcohol Fibers Acetalized with Tetrahydro Derivatives of Benzaldehyde – P. E. Shimanskii, L. V. Slin'ko, A. I. Meos, and Yu. K. Kirilenko 1491 1390
Properties of Redox Fibers of the Phenothiazine Type – I. I. Shamolina, L. A. Vol'f, A. I. Meos, R. A. Abakumova, and V. V. Pal'chevskii 1493 1392
Kinetics of Variation of the Physicochemical Properties of Polyvinyl Alcohol Fibers in the Course of Acetalization – L. V. Slin'ko, K. E. Perepelkin, and L. E. Utevskii 1496 1394
Resistance of Acetalized Polyvinyl Alcohol Fibers to the Action of Acids and Alkalies – L. V. Slin'ko and K. E. Perepelkin 1499 1396

BOOK REVIEWS
M. A. Brown. X-Ray Methods (in the series on Laboratory Methods of Purification and Analysis) – Reviewed by R. A. Zvinchuk 1502 1399

Volume 46, Number 7, Part 1 July, 1973

Purification of Sodium Bromide by Active Carbons – V. P. Taushkanov, I. A. Kuzin, A. N. Mironov, and S. F. Andrianov 1503 1401
Preparation of Pure Nitric Oxide – R. M. Kolomoiskaya, G. A. Skvortsov, and S. N. Ganz. 1506 1405
Dynamic Sorption of Germanium in Fluidized Beds of Activated Carbons Modified with Citric Acid and 8-Hydroxyquinoline – D. Ya. Evdokimov, E. A. Kogan, and Z. P. Sheikina 1510 1409
Regeneration of Ammonium Sulfate from the Double Sulfate of Nickel and Ammonium – M. A. Orekhov 1514 1414
Structure of Burned Limestones – V. A. Vladimirov, R. G. Lepilina, B. B. Puchkova, and G. D. Krivchenok 1519 1418
Alkali-Containing Hydrated Sulfoaluminate in Set Cement with Added Sodium Sulfate – L. V. Nikitina, Z. M. Larionova, and A. I. Lapshina 1523 1422
Composition and Properties of the Products of Sulfation of Altered Ilmenite and Rutile Concentrate – L. I. Bekkerman and I. N. Zabrodin 1527 1427
Relation between the Particle-Size Composition of Zinc–Cadmium Sulfide Phosphors and the Dispersity of the Original Zinc and Cadmium Sulfides – L. Ya. Markovskii, L. B. Taushkanova, V. F. Gladkova, and Yu. D. Kondrashev 1530 1430
Investigation of Hydrated Vanadium Pentoxide Containing Ammonium Groups – A. A. Fotiev, A. G. Rustamov, and A. A. Mambetov. 1534 1435
Separation of Fluorine from Zirconium and Hafnium Hydroxofluorides – M. M. Godneva and D. L. Motov. 1537 1438
Removal of Zinc Ions from Industrial Waste Waters with the Aid of Silicate–Calcium Materials – V. A. Fedorov, I. P. Alekseeva, and A. P. Dushina 1542 1443
Mechanism of Interaction of Silicate–Calcium Materials with Metal Ions in Aqueous Solutions – I. P. Alekseeva, A. P. Dushina, V. B. Aleskovskii, and V. A. Fedorov 1546 1447
Sorption of Cl^- and Br^- Anions on Hydrated Zirconium Dioxide (HZD) – Ts. P. Tsaikov, E. S. Boichinova, and Ts. G. Obretenov. 1551 1451
Additivity of Separation of Binary Aqueous Solutions of Salts by the Method of Reverse Osmosis – Yu. I. Dytnerskii and S. L. Zakharov 1555 1455

	Engl./Russ.	
Radiolysis of Phosphate Cation Exchanges of the KFÉ Type – V. N. Kott, A. M. Semushin, I. A. Kuzin, N. N. Kuznetsova, and K. P. Papukova	1558	1458
Synthesis of Sulfonated Cation-Exchange Membranes Based on Acenaphthylene and Polyethylene, and Study of the Influence of Irradiation and Heating on Their Properties – P. E. Tulupov, V. P. Greben', A. I. Mezentsev, Z. G. Zagorskaya, N. S. Tikhomirova, and G. Z. Nefedova	1562	1462
Polytetrafluoroethylene Membranes and Their Electrokinetic Properties – L. N. Moskvin, N. N. Kalinin, and L. A. Godon	1567	1468
Study of the Ion-Exchange Properties of Zirconium "Molybdophosphates" (ZMP) – I. K. Vinter, E. S. Boichinova, and N. E. Denisova	1571	1471
Kinetics of Copper Dissolution in Sulfuric Acid Solutions at High Temperatures and Oxygen Pressures – S. S. Naboichenko	1575	1475
Mechanism of Oxygen Absorption by Electron Exchanger ÉO-7 – Yu. P. Znamenskii and G. N. Davydova	1580	1481
Thermodynamic Properties of Liquid K–Na Alloys – M. F. Lantratov	1584	1485
Study of Solubility in the System NH_4NO_3–$NH_4H_2PO_4$–$(NH_4)_2H_2P_2O_7$ – I. A. Kashcheeva, I. M. Kaganskii, M. L. Varlamov, and G. A. Manakin	1588	1489
The Quaternary Reciprocal System Ca, Ca^{2+}, Si, Si^{4+}, $\| F^-$, O^{2-} – B. M. Nikitin, T. I. Litvinova, and T. F. Raichenko	1591	1492
Enthalpy of Component Transfer between Coexisting Liquid Phases in the System Toluene–Water–Isopropyl Alcohol – M. P. Susarev, V. P. Belousov, and A. M. Starodubtsev	1595	1496
Liquid–Vapor Equilibrium in Mixtures of Glycidol Synthesis – A. F. Frolov, M. A. Loginova, G. M. Samarina, L. V. Mel'nik, and L. V. Ob"edkova	1598	1499
Various Kinetic Regions of Dissolution in Two-Component Liquid–Liquid Systems – M. V. Ostrovskii, I. Z. Brunshtein, and A. A. Abramzon	1602	1503
Interphase Turbulence during Chemical Absorption of CO_2 in Diethanolamine Solutions – Yu. V. Furmer, Yu. V. Aksel'rod, and V. V. Dil'man	1607	1508
Influence of the Rate of Flow of Dispersed Air on Froth Flotation – N. N. Pustovalov and V. V. Pushkarev	1610	1512

Volume 46, Number 7, Part 2 July, 1973

Influence of Fluoride Ions on Corrosion of Lead and Lead–Silver Anodes during Electrolytic Production of Zinc – A. I. Zhurin, A. I. Kosmynin, and E. M. Solov'ev	1613	1515
Determination of Steady-State Electrolyte Concentrations Satisfying the Kohlrausch Regulating Condition – O. V. Oshurkova, N. V. Chebotareva, and I. A. Kozhurkina	1616	1518
Anodic Behavior of Indium Antimonide in Phosphate and Tartrate Solutions – A. S. Voevodskii and V. E. Metsatunyants	1620	1522
Influence of Chloride Ions on Anodic Behavior of Copper and Nickel – V. L. Kheifets and V. N. Andryushchenko	1623	1525
Chlorination of Acetone in Presence of Acidic and Basic Catalysts – L. V. Bugrova, G. K. Rudnev, A. I. Khristich, V. I. Radchenko, and L. F. Mishchenko	1627	1529
Relative Proportions of Isomeric Decanols and Decanones Formed during Liquid-Phase Oxidation of n-Decane – A. M. Syroezhko, V. M. Potekhin, V. A. Proskuryakov, Yu. N. Martynov, and N. P. Fedyanin	1632	1534
Chloromethylation of Asphaltene Concentrates – A. A. Ashirov, Yu. V. Pokonova, and V. A. Proskuryakov	1635	1537

Engl./Russ.

Pyrolysis of Bisethylbenzenechromium (O) – E. I. Gorgoraki, E. A. Efimov, and I. G. Erusalimchik 1639 1541
Synthesis of Imidazoline Derivatives and Investigation of the Products As Antistatic Agents for Plastics – Yu. I. Vasilenok, B. A. Konoplev, V. N. Lagunova, and V. I. Frolov 1642 1545
Preparation of Dimethylvinylcarbinol by Liquid-Phase Catalytic Isomerization of Isobutenylcarbinol and Isolation of the Product from the Aqueous Azeotrope by the Extraction Method – Yu. M. Blazhin, S. K. Ogorodnikov, S. V. Kazakova, and A. I. Morozova 1647 1550
Influence of Electrolytes on the Stability of a Polystyrene Latex with a Nonionic Emulsifier – T. G. Bol'shakova, V. N. Beresnev, and N. I. Smirnov 1650 1553
Study of the Properties of Cellulose Obtained from Spruce of Different Ages – A. F. Zaitseva, G. A. Petropavlovskii, Yu. N. Nepenin, and G. A. Pazukhina 1655 1558
Chemical Cross-Linking and Production of Insoluble Films from Water-Soluble Na Carboxymethylcellulose – M. K. Yur'eva, G. A. Petropavlovskii, and G. V. Marasanov 1659 1562
Kinetics and Optimal Conditions of Interaction of Acetaldehyde, Formaldehyde, and Ammonia with Formation of β-Picoline – N. A. Titova, G. N. Abaev, V. V. Vetrova, B. F. Ustavshchikov, and G. K. Denisova 1663 1566

BRIEF COMMUNICATIONS

Influence of Sulfur on Removal of Copper from Roasted Nickel Matte in the Course of Chloride Volatilization – V. S. Sorokina and I. D. Reznik 1668 1572
Decomposition of Supersaturated Aluminate Solutions at Temperatures of 100-160°C – S. I. Kuznetsov, V. M. Novozhenov, and T. A. Rybakova 1671 1574
Formation of Hydroxylamine in Caprolactam and Purification of the Latter by Recrystallization – V. L. Skorokhodova and V. B. Kogan. 1673 1575
New Method of Distinguishing Geometrically Isomeric Diammines of Platinum (II) and Platinum (IV) – Yu. N. Kukushkin, P. G. Antonov, and K. I. Dubonos 1676 1578
Kinetics of Structure Formation in Hardening Cement and Concrete – I. K. Shelomov, V. I. Nikitinskii, and É. I. Dizer. 1679 1580
Influence of the Chloride Ion Concentration in Distillation Liquor of the Ammonia–Soda Process on the Calcium Sulfate Content – N. N. Drozin, E. N. Mikhailova, T. G. Rusanova, E. F. Kulikova, S. G. Fridman, and V. A. Stepanova 1682 1583
Interaction of Stannous Chloride and Ferrous Chloride with Chlorine – A. G. Krokhina and V. A. Krokhin 1684 1585
Vaporization of Antimony Sulfide–Selenides – Yu. F. Orlov, L. A. Panfilova, T. B. Stanskaya, D. A. Sakeev, and V. I. Fomina 1687 1587
Synthesis of $GeCl_4$ from Amorphous Germanium Dioxide – G. E. Revzin, L. M. Petrova, and A. A. Yarovoi 1690 1589
Influence of the Conditions of Thermal Dehydration of $CaHPO_4 \cdot 2H_2O$ on the Habit of $CaHPO_4$ Crystals – V. N. Popov and V. P. Glushkov 1692 1590
Influence of Temperature on Flotation of Ni^{2+} and Co^{2+} Ions Collected by Potassium Laurate – L. D. Skrylev, K. B. Amanov, and V. V. Sviridov. 1695 1593
Thermodynamics of Formation of Manganese Monochloride and Dichloride in a Eutectic Mixture of Lithium and Potassium Chlorides – A. F. Alabyshev, M. V. Kamenetskii, A. G. Morachevskii, and V. A. Petrov 1698 1596
Corrosion Resistance of Stainless Steel, Pyrex Glass, and Niobium in Germanium Tetrachloride – I. N. Gurzhiyants, L. N. Shigina, G. I. Petrov, É. V. Murav'eva, and A. P. Gurzhiyants 1700 1597

Thermodynamics of Pyrosilicate Reactions in the System $BaSO_4$–SiO_2–C – F. I. Strigunov and V. I. Alekseev 1704 1600
Thermal Conductivities of Solutions of Na_2CO_3, K_2CO_3, KCl, and K_2SO_4 at Various Temperatures – E. I. Chernen'kaya and G. A. Vernigora 1707 1603
Assessment of Phases in Chromatography by the Solubility Parameters – V. F. Mironenko and Yu. N. Garber 1710 1605
Organized Fluidized Bed in a Flat Model – N. V. Kuzichkin, A. T. Bartov, and E. A. Kulish 1712 1607
Aggregative Fluidization in a Flat Model – A. T. Bartov, N. V. Kuzichkin, and E. A. Kulish 1715 1610
Use of Dilute Solutions of Iodine in Certain Freons and Inorganic Chlorides As Model Systems for Studying Mass Transfer in Rectifying Columns – L. A. Nisel'son, K. V. Tret'yakova, and M. E. Yatko 1718 1613
Automatic Continuous Desorber – I. O. Protod'yakonov 1720 1614
Influence of the Surface Film on the Corrosion Resistance of Electrochemically Polished Copper – S. N. Raicheva, M. D. Parlapanski, and D. S. Zlateva 1722 1615
Production of Thickened Anodic Oxide Coatings on Titanium – G. M. Remizov, V. V. Malygin, and A. Ya. Shatalov 1724 1617
Anodic Behavior of Indium Antimonide in Ethylene Glycol Electrolyte – A. S. Voevodskii and G. K. Naglenko 1726 1619
Electrochemical Separation of Tungsten–Molybdenum Alloys – A. F. Zueva, A. D. Styrkas, and B. M. Tarakanov 1729 1621
Influence of Ion Concentrations and Current Density on Deposition of Iron–Nickel Alloys from Sulfamate Electrolytes – M. K. Starostina and V. I. Lainer 1732 1623
Interaction of Urea with Aluminum Sulfate in Strongly Acidic Media – N. Sh. Safiullin, M. N. Moshoshina, and Yu. Ya. Bobyrenko 1734 1625
Influence of the Order of the Deactivation Reaction on the Conversion in a Batch Polymerization Process – A. V. Zak 1737 1627
Synthesis of N,N'-Bis(β-Hydroxyethyl)ethylenediamine – N. M. Lysenko, A. P. Shakh, and V. N. Evreev 1739 1629

Volume 46, Number 8, Part 1 August, 1973

Progress in Sulfuric Acid Technology – A. G. Amelin and A. A. Svergunenko 1741 1633
Interaction of Polysilicic Acid with Nickel Ions in Aqueous Solutions – I. N. Signalov and A. P. Dushina 1751 1643
Diffusion Processes in Reduction of Tricalcium Phosphate by Hydrogen in Presence of Alumina – S. V. Kushnir and V. P. Dubrovskii 1755 1647
Determination of Silver in Exhausted Fixing Baths – I. M. Batyaev, I. G. Vinogradova, B. I. Lobov, L. L. Sverdlov, A. P. Amaryan, I. I. Galankin, V. Kh. Avetisyan, and L. I. Gratsershtein 1760 1652
Adsorption of Butylisothiouronium Bromide and of the Products of Its Alkaline Hydrolysis On Pyrite and Quartz – V. I. Vaganova, S. I. Dobycheva, B. V. Levinskii, and D. I. Kogan 1764 1656
Selective Catalytic Removal of Oxygen from Gaseous Mixtures Containing Nitrogen Oxides – R. M. Kolomoiskaya, G. A. Skvortsov, and S. N. Ganz 1767 1659
Solubility and State of Beryllium Oxide in Aqueous Solutions of Caustic Alkalies – B. I. Losev, R. F. Doronkina, and I. V. Vasil'eva 1772 1664
Polythermal Crystallization – E. V. Khamskii and D. V. Tsikaeva 1777 1668

Engl./Russ.

Rate Constants of Urea Synthesis from Ammonia and Carbon Dioxide—V. I. Kucheryavyi and L. N. Al'tshuler 1781 1672
Saturated Vapor Pressure and Thermodynamic Characteristics of Aqueous Solutions of $NaBO_2$ in the Temperature Range 25-80°C—V. I. Zarembo and M. K. Fedorov 1785 1676
Anodic Behavior of Nickel in an Alkaline Medium under Conditions of Stationary Polarization—N. N. Milyutin, G. S. Zenin, and V. V. Sysoeva. 1789 1680
Influence of Various Additives on Formation of Deposits in Boiler Plant—A. K. Kir'yanov and N. V. Karagodina 1794 1686
Thermal and Anodic Oxidation of Titanium and the Chemical Stability of Interference-Colored Films on It—N. P. Peksheva and E. S. Vorontsov. 1798 1689
Influence of Current Density on Behavior of Cadmium Electrodes in Silver—Cadmium Storage Cells—E. I. Papazova, G. P. Andreeva, and V. A. Nikol'skii. 1802 1693
Corrosion of Certain Heat-Resistant Alloys in Molten Sodium Chloride—N. I. Bogdanov, B. Ya. Varganov, and N. D. Kholomonova 1806 1698
Concentration and Temperature Dependences of Coefficients of Diffusion in Water and Hydration of Alkali Halides—A. A. Ravdel', A. B. Porai-Koshits, A. M. Sazonov, and G. A. Shmuilovich 1811 1703
Extraction of Metal Cations from Aqueous Solutions by Froth Flotation—N. N. Pustovalov and V. V. Pushkarev 1815 1707
Mathematical Models of the Structure of Liquid-Phase Streams in Bubbling Columns with Large Liquid Heights and Determination of Their Parameters—V. V. Kafarov, A. E. Kruglik, and V. I. Trofimov. 1819 1712
Influence of the Geometrical Dimensions of a Device for Centrifugal Phase Separation on the Hydraulic Resistance of the Separating Plate — V. D. Lukin, P. G. Romankov, V. A. Astakhov, and V. A. Tan. 1827 1720
Role of the Interface in Determination of the Initiation Rate of Suspension Polymerization —S. S. Ivanchev, I. A. Andor, and N. I. Solomko. 1832 1724
Determination of the Separability of Dispersely Unstable Systems by Centrifuging M. G. Vinogradova, S. A. Plyushkin, and P. G. Romankov 1837 1729

Volume 46, Number 8, Part 2 August, 1973

Mathematical Model of Uncatalyzed Diazotization — B. V. Passet, V. A. Sidorov, V. A. Kholodnov, and P. A. Kulle 1843 1734
Influence of Dispersed Substances on Liquid-Drop Entrainment during Bubbling and Boiling — É. M. Lavrova 1848 1739
Rectification Processes in a Ternary System with a Ridge Dividing Line — N. V. Lutugina, G. I. Nikandrova, and O. N. Narizhnaya 1852 1744
Influence of Traces of Oxygen on Thermal Degradation of Polydimethylsiloxane in Argon — I. A. Metkin and K. B. Piotrovskii 1858 1749
Kinetics of Carbon Monoxide Conversion with Steam on Iron—Chromium Catalyst — V. N. Anokhin, I. P. Mukhlenov, and L. A. Tarasov 1862 1754
Selectivity of Ion-Exchange Processes with Partial Inaccessibility of Sorption Centers — V. A. Pasechnik, B. V. Moskvichev, and G. V. Samsonov 1867 1758
Removal of Colloidal Particles from Waste Waters in Production of Suspension Polystyrenes — L. I. Shmidt. 1872 1763
Influence of Finishing with Organosilicon Compounds on Specific Electrical Resistance and Soiling or Textile Materials — M. G. Voronkov, G. V. Ivanova, and T. G. Ternyaeva 1875 1766
Statics and Dynamics of Adsorption of Dicarboxylic Acids on Active Carbons —G. M. Belotserkovskii, I. D. Dashkovskii, N. A. Emel'yanova, and V. A. Proskuryakov 1879 1770

	Engl.	Russ.
Impregnation of Porous Graphite with Aqueous Emulsions of Linsed Oil – V. Ya. Khentov, V. P. Fokin, M. S. Ostrikov, and N. I. Petrova	1884	1775
Sorption of Perrhenate Ions by the Modified Anion Exchanger AV-17 × 8P – A. G. Kholmogorov, A. P. Nadol'skii, Yu. S. Pilichuk, and L. M. Kuchinskaya	1888	1779
Use of an Ion-Exchange Method for Isolation of Molybdenum from Concentrated Soda Solutions – E. A. Andronov, T. M. Lukicheva, and I. A. Kuzin	1892	1783
Polymerization of Tetrahydrofuran under the Influence of the Catalytic System $Al(iso\text{-}C_4H_9)_3$–H_2O–3-Ethyl-3-chloromethyloxacyclobutane – Yu. A. Gorin, É. I. Rodina, and E. O. Osipchuk	1897	1787
Deoxygenation of Water by ÉO-7 Electron Exchanger at Elevated Temperatures – V. B. Shchedrina, V. A. Uglyanskaya, T. A. Kravchenko, and A. Ya. Shatalov	1901	1791
Sorption of Tin (IV) Compounds by Active Carbon from Chloride Solutions – V. P. Taushkanov, I. A. Kuzin, Yu. A. Pokhitonov, and B. M. Leonov	1905	1795
Influence of Pressure on Demethylation of Toluene with Steam – G. L. Rabinovich, V. S. Vorob'ev, I. A. Vasil'ev, and L. M. Biryukova	1909	1798
Direct Oxidation of Benzene to Phenol in the Gas Phase – D. I. Dimitrov, B. K. Kumanova, and N. Kh. Bisolnakov	1913	1803
Thermochemical and Kinetic Study of Interaction of Cellulose Materials with Cadmium Ethylenediamine Complex in Aqueous Solution – Yu. A. Krylatov, T. A. Tumanova, and S. L. Talmud	1917	1806
Influence of Organic Solvents in Electrical Conductivity of Trialkylbenzylammonium Salts – M. L. Navtanovich, N. A. Yakovleva, and V. L. Kheifets	1921	1810
Role of the Medium in Processes of Cellulose Phosphorylation – N. A. Matveeva, L. I. Kutsenko, and N. I. Klenkova	1924	1813
Synthesis and Properties of Esters of α,α-Dimethylalkanoic Acids and Polyhydric Alcohols – V. A. Bochkova, V. A. Proskuryakov, K. V. Puzitskii, S. D. Pirozhkov, and Ya. T. Éidus	1929	1818
Thermocatalytic Reactions of Carboxylic Acids with Carbon Tetrachloride in the Gas Phase – V. N. Dubchenko	1933	1822
Synthesis and Properties of 2,4-Dihydroxyphenyl Alkyl Ketones and Their Monoethoxy Derivatives – R. V. Nigmatulin, G. S. Glazunova, L. É. Smirnova, and S. N. Khar'kov	1937	1826
Compressibility of the Ethylene–Vinyl Acetate System – V. S. Zernov, V. B. Kogan, S. G. Lyubetskii, V. M. Kobyakov, and F. I. Duntov	1940	1829
BRIEF COMMUNICATIONS		
Interaction of Native Phosphates with Potassium Sulfate in Presence of a Reducing Agent – S. A. Amirova, A. L. Sofronov, Z. A. Éide, F. V. Ekhlakova, and N. V. Balabanova	1943	1832
Crystallization of Lead Carbonate from Solutions – Yu. A. Serebryakov and E. V. Khamskii	1945	1834
Optimal Conditions for Iodine Determination by a New Variant of the Kinetic Nitrite–Thiocyanate Method – R. V. Shveikina	1948	1836
Dehydration of Crystalline Aluminum Sulfate Hydrate – É. B. Gitis, E. F. Dubrava, V. F. Annopol'skii, N. M. Panasenko, and E. N. Gur	1950	1838
Phase Diagram of the System NaCl–KCl–UCl_4 – V. N. Desyatnik, B. V. Dubinin, and S. P. Raspopin	1953	1840
Study of Electrical Conductivity of Alkali-Metal Siloxanediolates in Media of Low Dielectric Constants with the Aid of an Alternating-Current Bridge – V. V. Pchelintsev, E. G. Kagan, and Yu. A. Yuzhekevskii	1955	1842
Optimal Geometrical Dimensions of the Stepped Bottom of a Vibratory Dryer – A. R. Yakuba, M. Ya. Rozkin, V. I. Slepchenko, and A. A. Pavlyukov	1958	1844

	Engl.	Russ.
Chromatographic Method for Determination of Contents of Gases in Liquids – M. P. Odinets, G. L. Tudorovskaya, B. L. Lopatin, V. D. Kozlova, and V. V. Leskin	1960	1845
Action of Shock Waves on Polymers – A. E. Pereverzev, D. A. Vlaso, and D. Kh. Kulev	1963	1847
Separate Determination of Exchange Capacities of Functional Groups in Polyampholytes – E. N. Zelenina and F. M. Shemyakin	1966	1849
Sorption Properties of Carbons Activated by Phosphoric Acid – A. N. Amelin and Yu. V. Karyakin	1968	1851
Electrochemical Dissolution of Gold – A. D. Styrkas	1971	1852
Determination of the Solubility of Chlorine in Toluene and in Its Side-Chain Chlorination Products – A. V. Evgunov, B. I. Konobeev, E. A. Ryabov, and T. I. Gubanova	1974	1855
Hydraulic Resistance of "Drop-Through" Grids of Foam Equipment in the Wave Regime – A. Yu. Val'dberg, É. Ya. Tarat, and L. L. Nabutovskaya	1977	1857
Phase Equilibria in the System Dimethyl-4,4-dioxane-1,3–Formaldehyde–Water – L. M. Pugach, S. K. Ogorodnikov, Yu. M. Blazhin, G. S. Idlis, and Z. A. Klyueva	1980	1858
Direction of Oxygen Attack in Liquid-Phase Oxidation of Aliphatic Ketones – I. I. Rif, V. M. Potekhin, and V. A. Proskuryakov	1982	1860
Liquid–Vapor Equilibrium in the Systems CH_3SiCl_3–BCl_3 and CH_3SiCl_3–BBr_3 – T. D. Sokolova, N. K. Prokof'eva, and L. A. Nisel'son	1985	1863
Density, Viscosity, and Electrical Conductivity of Seawater at Temperatures up to 300-350°C – V. P. Mashovets, L. V. Puchkov, V. N. Smaev, M. K. Fedorov, and N. V. Fedotov	1988	1865
Development and Use of a Combination of Methods for Determination of the Composition of Reaction Mixtures in Production of Urea–Formaldehyde Resins – B. M. Bulygin, L. A. Aleksandrova, and N. I. Borodkina	1991	1868
Liquid–Vapor Equilibrium in the System Tetralin–α-Tetralone – V. I. Trofimov, M. Ya. Mel'nichenko, E. Ya. Sirota, and A. M. Yakubson	1995	1871
Adsorber with Automatic Stabilization of the Output Concentration of Adsorbate – I. O. Protod'yakonov and P. G. Romankov	1997	1872
Adsorber with Programmed Control – I. O. Protod'yakonov and P. G. Romankov	1998	1873
Condensation of trans-β-Chlorostyrene with Paraformaldehyde in Presence of KU-2 Cation-Exchange Resin – V. I. Isagulyants, V. R. Melikyan, and Nguyen Man Hung	2000	1874
Solubility Polytherm of the System Polyphosphoric Acid–Potassium Chloride–Ammonia–Water – P. M. Bugai and V. P. Slyn'ko	2002	1875
Influence of Magnetite on the Dehydrating Activity of the Mineral Pigment Ocher – V. L. Kvirikashvili	2004	1877
Gas-Chromatographic Analysis of Certain Sulfur-Containing Ethers – Sh. Mamedov, O. B. Osipov, I. L. Nizker, and A. A. Ramazanov	2006	1878
Condensation of Phenol and o-Cresol with Ketones of the Aliphatic and Alicyclic Series – G. S. Kazakova, K. A. Matchina, V. V. Voronenkov, and A. F. Moskvin	2008	1880
Rates of Dissolution of Borates in Salicylic Acid Solutions – V. K. Mardanenko, N. A. Karazhanov, and V. G. Kalacheva	2011	1882
Influence of Bifunctional Isomeric Cross-Linking Agents on the Structural Viscosity of Polyethylene Oxide – B. I. Dashevskaya, R. G. Tartakovskaya, V. M. Bodnya, and M. Kh. Gluzman	2014	1885
Solubility of Phenylenediamine Dihydrochlorides in Amide Solvents – V. M. Savinov and L. B. Sokolov	2016	1886

Volume 46, Number 9, Part 1 September, 1973

Thermographic and Rheological Studies of Melts of Urea Phosphates and Their Blends with Potassium Chloride—S. I. Vol'fkovich, A. I. Chekhovskikh, and T. K. Mikhaleva 2019 1889
Production of Urea Phosphates from the Intermediate Product of Urea Synthesis and Polyphosphoric Acids—S. I. Vol'fkovich, A. I. Chekhovskikh, T. K. Mikhaleva, V. V. Nechaeva, and N. M. Khelemskaya. 2024 1895
Sulfate Beneficiation of Karatau Phosphorites—M. E. Pozin, Z. Kh. Markazen, and E. A. Fomina 2030 1901
Kinetics of Thermal Decomposition of Sodium Carbonate Monohydrate—E. S. Dubil' . . . 2035 1906
Removal of Iron and Aluminum Impurities from Concentrated Caustic Soda Solutions with the Aid of Active Carbons—A. I. Postoronko, N. M. Vasil'eva, and I. A. Tarkovskaya 2040 1911
Use of Molten Sodium Hydroxide for Removing High-Temperature Scale from Certain Heat-Resistant Alloys—A. M. Solok, V. A. Babchenko, É. I. Vydra, and V. M. Kuznetsov 2044 1915
Equilibrium Potentials of Tungsten in a Melt of Potassium and Sodium Chlorides —S. N. Shkol'nikov, M. I. Manenkov, and A. K. Yarmolovich 2047 1918
Conditions and Relationships of Manifestation of Binding Properties in Systems of the Salt—Water Type—M. M. Sychev and L. B. Svatovskaya 2050 1922
Flotation Separation of Heavy-Metal Ions Collected by Potassium Laurate —L. D. Skrylev and K. B. Amanov 2053 1925
Chemical Properties of Higher Silicides of the Iron Triad—O. I. Popova and L. A. Dvorina. 2056 1928
Modification of the Structure of Aluminosilicates under the Influence of Vanadium Compounds—I. P. Mukhlenov, E. I. Dobkina, Z. G. Filippova, N. P. Matveeva, and S. M. Kuznetsova 2059 1931
Study of the Product of Interaction of Copper (II) with Sulfanthrol—E. A. Maksimyuk, É. I. Gal'braikh, L. M. Pozin, and L. P. Shpigel' 2063 1935
Sorption of Ge (IV) and As (III) in a Fluidized Bed of Activated Carbon Modified with Ferric Hydroxide and Tartaric Acid—D. Ya. Evdokimov, E. A. Kogan, and Z. P. Sheikina 2066 1938
Phase Diagram of the System NaCl—KCl—$TiCl_2$—L. A. Pavlova, V. G. Gopienko, and E. F. Klyuchnikova 2070 1942
Investigation of the Binary System LiCl—$TiCl_3$—E. F. Klyuchnikova, V. G. Gopienko, É. N. Ryabov, and I. V. Godun 2074 1947
Isolation of Germanium Tannate and Gallate Complexes by the Flotation Method —I. I. Seifullina, A. F. Pozharitskii, L. D. Skrylev, E. M. Belousova, and A. S. Chistov 2077 1950
Saturated Vapor Pressure and Specific Heat of Seawater at 25-350°C — V. P. Mashovets, R. P. Matveeva, L. V. Puchkov, and M. K. Fedorov 2080 1954
Structure of a Fluidized Bed near a Surface Immersed in it—V. N. Korolev, and N. I. Syromyatnikov. 2083 1956
Calculation of Reaction-Rate Constants in Heterogeneous Oxidation of Methane —A. R. Vilenskii, I. P. Mukhlenov, A. Ya. Averbukh, and V. A. Kholodnov 2086 1960
Study of the Mechanism of Formation of a Stream-Circulation Bed—F. G. Ageev, L. I. Krupnik, and V. E. Soroko. 2089 1963
Study of Gas Distribution and Critical Parameters in a Stream-Circulation Bed of Catalyst—V. A. Konovalov and V. E. Soroko. 2092 1966
Influence of Vibratory Pressing on Properties of a Chromium Catalyst —O. D. Sterligov and I. M. Arinich 2096 1970
Intensification of Isohydric Crystallization with the Aid of Forced Recrystallization —I. G. Bazhal, E. P. Dzyubenko, O. D. Kurilenko, and V. F. Chernenko 2099 1973

Dependence of the Thermal Stability of Anion Exchangers of the Ankalit Type on the Composition of Their Functional Groups – Z. N. Eirish, V. V. Zykova, and B. N. Laskorin 2104 1979
Thermodynamic Properties of Liquid Na–Mg and K–Mg Alloys – M. F. Lantratov ... 2107 1982
Anodic Behavior of Nickel in Alkaline Solutions under Dynamic Polarization Conditions – G. S. Zenin, V. V. Sysoeva, and N. N. Milyutin 2111 1986
Cathodic Reduction of Sulfur Dioxide in Concentrated Aqueous Solutions – A. I. Zak and A. A. Vyselkov 2115 1991
Technique of pH Measurement in the Diffusion Layer Near the Cathode with the Aid of a Glass Microelectrode – R. U. Bondar', V. G. Bazdyrev, and I. V. Gamali ... 2119 1996
Acidity of the Diffusion Layer at the Cathode during Electrolysis of Sodium Chloride Solutions with a Mercury Cathode – T. M. Ovchinnikova, V. M. Timonyuk, and V. E. Zyablitsev 2122 1999
Study of the Catalytic and Electrochemical Activity of Oxidized and Promoted Graphite – I. P. Kolesnikova and Yu. A. Tkach 2127 2004

Volume 46, Number 9, Part 2 September, 1973

Enthalpies of Formation of Amides of Monocarboxylic Acids – N. D. Lebedeva and Yu. A. Katin 2131 2009
Study of Halogenation of Perfluoroalkylbenzenes – Yu. A. Larionova, A. I. Ponomarev, A. L. Klebanskii, N. B. Zaitsev, A. I. Kol'tsov, G. V. Motsarev, and V. R. Rozenberg 2135 2012
Hydrolysis of Graham's Salt in Aqueous Solutions of the System Oxalic Acid–Graham's Salt–Sulfonol – L. M. Smirnov, V. V. Smirnov, M. V. Ugryumov, and A. A. Tsvetkova 2140 2016
Sorption of Synthetic Latices by Chrysotile Asbestos Fibers – G. A. Smirnov, V. A. Zasova, and N. P. Zalesskaya 2144 2020
Decomposition of 1-Methylcyclohexyl Hydroperoxide in Presence of an Inhibitor – M. N. Puring, V. M. Potekhin, V. A. Itskovich, and V. A. Proskuryakov 2147 2024
Influence of Electrical Conductivity of the Active Material on the Behavior of the Iron Plate in an Alkaline Storage Cell – A. M. Novakovskii, S. A. Grushkina, and R. L. Kozlova 2150 2026
Synthesis and Comparative Study of the Properties of Sulfonated Cation Exchangers Based on Copolymers of Styrene with Divinylbenzene Isomers – P. S. Belov, S. I. Bel'fer, I. I. Ivanova, and K. M. Saldadze 2154 2031
Some Aspects of the Mechanism of Joint Liquid-Phase Oxidation of Benzene and Cyclohexane by Air – P. I. Shaboldo and V. M. Potekhin 2158 2035
Liquid–Vapor Equilibrium in the Systems Ethyl Acrylate–n-Butanol, n-Butanol–n-Butyl Acrylate, and Ethyl Acrylate–n-Butanol–n-Butyl Acrylate – N. A. Filippov and V. O. Reikhsfel'd 2164 2041
Some Features of Copolymerization of Vinylpyrrolidone with Crotonaldehyde – G. P. Tereshchenko, B. V. Shiryaev, E. I. Novikova, É. S. Shul'gina, N. Ya. Salivon, and A. F. Nikolaev 2168 2045
Use of Polyalkylsiloxanes in Peroxide Bleaching – V. F. Gromov, M. G. Voronkov, and V. M. Bel'tsov 2171 2049
Kinetics of Emulsion Polymerization of Styrene in the Region of Low Concentrations of Anionic Emulsifiers – M. S. Ryabova, V. N. Beresnev, and N. I. Smirnov 2175 2052
Determination of the Kinetic Parameters of Uncatalyzed Diazotization – B. V. Passet, V. A. Sidorov, V. A. Kholodnov, and P. A. Kulle 2180 2057
Interaction of Cellulose Acetate with Dimethylolethyleneurea – I. M. Velikanova, G. D. Litovchenko, Yu. A. Kostrov, and S. P. Papkov 2185 2062

	Engl.	Russ.
Preparation of Certain Organic Compounds Labeled with Carbon-14 — A. M. Syroezhko and N. T. Selivanov	2188	2066
Thermal Properties of Methyl Methacrylate–Vinylene Carbonate Copolymers — N. K. Zaitseva, O. M. Klimova, V. V. Kostenko, S. S. Khin'kis, and A. T. Emel'yanova	2192	2070
Influence of pH on Electrochemical Reduction of α, β-Unsaturated Nitriles — A. P. Tomilov and I. G. Sevast'yanova	2196	2074
BRIEF COMMUNICATIONS		
Losses of Platinum Metals during High-Temperature Oxidation of Ammonia under Pressure — V. I. Atroshchenko and A. S. Savenkov	2199	2077
Oxidation of Copper (I) by Oxygen in Presence of Bromide Ions — D. V. Sokol'skii, Ya. A. Dorfman, and L. S. Érnestova	2202	2079
Dissolution of Zinc Oxide in Aqueous KOH Solutions at Low Reynolds Numbers and under Conditions of Natural Convection — A. A. Ravdel', V. P. Lutsik, and V. V. Danilov	2204	2080
Interaction of ZrO_2 with Nd_2O_3 under Conditions of Isothermal Treatment — V. I. Strakhov, Ya. V. Klyucharov, and G. G. Sergeev	2207	2083
Interaction of Calcium Oxide and Silica with Dilute Alkaline Aluminate Solutions — N. S. Mal'ts, Zh. D. Zinkevich, D. I. Tsekhovol'skaya, and I. M. Grigor'eva	2210	2085
Measurement of the Vapor Pressure of Ammonium Hydrogen Fluoride — L. N. Lazarev and B. V. Andronov	2213	2087
Enthalpies of Crystallization of Calcium Sulfate Dihydrate and of the Anhydrous Salt from Supersaturated Two-Component Aqueous Solutions — N. I. Savchenko, L. V. Petrova, and N. Ya. Novotel'nova	2215	2089
Isothermal Evaporation of Acid Solutions of Manganese Nitrate at 80°C — A. B. Zdanovskii and G. É. Zhelnina	2218	2091
Adhesion of Steel to Electrolytic Nickel Deposited from a Sulfamate Electrolyte — A. Sh. Muradov, P. M. Vyacheslavov, and A. I. Zolotov	2220	2093
Thermodynamic Properties of $CdCl_2$–LiCl Salt Melts — M. F. Lantratov	2222	2094
Assembly for Preparing Solutions and Measuring Their Electrical Conductivity in an Inert Atmosphere — I. K. Getmanskii, V. I. Afanas'ev, and I. G. Vlasenko	2225	2097
Purification of Arsenic Trichloride by an Extraction Method — N. M. Kuz'min and G. D. Popova	2227	2098
Influence of Mn^{2+} Ions on Anode Corrosion and on the Form in Which Lead Passes into the Cathodic Deposit during Electrolytic Production of Zinc — A. I. Zhurin, A. I. Kosmynin, and P. G. Prosovetskii	2229	2099
Influence of the Chemical Bond in Oxides on Their Wettability by Liquid Metals — G. A. Kurbatov, V. A. Kalmykov, and O. A. Val'dman	2231	2101
Liquid–Vapor Equilibria in the System Allyl Chloride–Propyl Chloride in Presence of Certain Solvents — V. F. Mironenko and Yu. N. Garber	2233	2102
Automatic Continuous Adsorber with Plates of Variable Open Section — I. O. Protod'yakonov and P. G. Romankov	2235	2103
Estimation of Volume Effects of Mixing within the Framework of the Lattice Theory of Solutions — E. V. Komarov and I. V. Kogan	2237	2105
Kinetics of Liquid-Phase Oxidation of Dicyclohexyl and Composition of the Oxidation Products — S. S. Pavlov and V. A. Itskovich	2239	2106
Determination of the Copolymerization Constants of Ethylthioethyl Methacrylate and Methyl Methacrylate — A. A. Berlin, G. N. Shvareva, Yu. A. Makarov, and V. B. Anikina	2243	2109
Influence of Alloying Components on the Electrochemical Behavior of Stainless Steels in H_2O_2 Solutions — V. M. Berenblit and V. A. Gus'kov	2245	2111
Study of Azeotropy in Binary and Multicomponent Systems — T. F. Afanasenkova, G. V. Burova, Yu. I. Malenko, and N. E. Shakunova	2248	2114
Radiation Stability of Polycondensation Ion-Exchange Resins Based on Furfural — M. A. Askarov, A. T. Dzhalilov, R. A. Nazirova, and G. S. Tsveshko	2250	2115

Use of Electrodialysis with Ion-Selective Membranes for Concentrating Carbonate Solutions – B. N. Laskorin, N. M. Smirnova, Yu. I. Tisov, G. N. Gorina, and A. V. Borisov 2253 2117
Investigation of the Solid Products of Thermooxidative Breakdown of Branched Polymethylphenylsiloxanes (PMPS) with the Aid of Infrared Spectroscopy – V. V. Ostrovskii and N. P. Kharitonov 2256 2119
Use of the Aromatic Polyamide Phenylone as a Sorbent – T. I. Zagumennova, T. V. Kudim, and L. B. Sokolov 2258 2120
Interaction of Oxidized Cellulose with Isonicotinic Acid Hydrazide – E. B. Dol'berg, B. G. Yasnitskii, L. N. Shuteeva, and I. P. Kovalev 2260 2121

BOOK REVIEWS
Janos Ladik. Quantenbiochemie Für Chemiker Und Biologen – Reviewed by A. V. Tulub 2263 2124
M. A. Bezborodov. Chemical Durability of Silicate Glasses – Reviewed by M. F. Shur 2265 2125
B. M. Mogutnov, I. A. Tomilin, and L. A. Shvartsman. Thermodynamics of Iron–Carbon Alloys – Reviewed by A. G. Morachevskii 2267 2126

Volume 46, Number 10, Part 1 October, 1973

Kinetics and Mechanism of $CdMoO_4$ Synthesis in $CdCO_3(CdO)-MoO_3$ Reactions – E. V. Tkachenko and V. M. Zhukovskii 2269 2129
Kinetics of Sorption of Tin, Bismuth, and Lead Compounds from Hydrochloric Acid Solutions by Active Carbon – V. P. Taushkanov, I. A. Kuzin, B. M. Leonov, and Yu. A. Pokhitonov 2274 2134
Nickel Tungstates – M. V. Mokhosoev and M. N. Zayats 2279 2139
Investigation of the Interaction of Ferrous Sulfate with Pyrite – K. M. Malin, I. E. Ioshpa, and V. G. Ivanov 2282 2143
Preparation and Sorption Properties of Tin (IV) Phosphate – V. N. Krylov, V. G. Pitalev, A. A. Pospelov, A. M. Trofimov, and V. G. Chukhlantsev 2287 2147
Study of Solubility in the System Caustic Soda–Citric Acid–Water at 25°C – L. F. Pichugina, F. E. Rapoport, B. I. Zhelnin, and D. M. Korf 2291 2151
Photochromism and Liquid–Liquid Phase Separation in Glasses of $R_2O-B_2O_3$ Systems – V. V. Vargin, N. A. Papunashvili, and V. A. Tsekhomskii 2295 2154
Mechanism of Reactive Diffusion in Solid-Phase Synthesis of Strontium Molybdate – V. M. Zhukovskii and A. N. Petrov 2299 2159
Effectivenesss of Capture of Ferric Ions by Cesium Nitrate in Relation to the Precipitation Conditions – E. V. Khamskii and A. N. Bykova 2303 2163
Use of Cobalt Sulfate as a Catalyst of Sodium Sulfite Oxidation in Aqueous Solutions – A. M. Tsirlin, V. N. Trushanov, and G. Ya. Khodov 2307 2167
Radiochemical Investigation of Thermal Decomposition of Bisarene Compounds of Chromium – M. R. Leonov, B. V. Polozov, G. V. Gladkova, A. N. Artemov, and G. G. Petukhov 2311 2171
Relation between the Electrode Properties and Chemical Durability of Glasses – V. S. Bobrov and M. M. Shul'ts 2314 2174
Refractive Indices and Densities of Lithium Borosilicate Glasses – V. V. Akimov 2318 2178
New Inhibitors of Corrosion in Neutral Salt Solutions – S. A. Balezin, I. P. Nelaev, and V. G. Sorokin 2321 2181
Influence of Conductivity and Porosity on the Behavior of the Iron Plate in an Alkaline Storage Cell – A. M. Novakovskii, S. A. Grushkina, and R. L. Kozlova 2324 2183

Electrochemical Behavior of Chromium in H_2O_2 Solutions – V. M. Berenblit, V. A. Gus'kov, and O. A. Tsukurov 2328 2188
Investigation of Anodic Dissolution of InSb in Mixed Bromide–Sulfate Solutions by the "Switching" Method – V. P. Mikhailova, V. V. Malev, and Ya. V. Durdin . 2333 2192
Certain Chemical and Electrochemical Properties of Titanium in Fluorine-Containing Solutions – I. N. Gladkii 2337 2197
Influence of Water-Repellent Treatment on Pressure Loss Due to Friction during Flow of Liquids through Capillaries – M. B. Barbin 2341 2201
Structure and Thermodynamic Properties of Solutions in Salt Melts of the Ternary System – $KCl–PbCl_2–LiCl$ – M. F. Lantratov 2345 2205
Electron-Exchange Properties of Active Carbons – N. N. Masyutin, I. A. Kuzin, and A. A. Blokhin 2351 2211
Methods for Separating the Products of Thermal Breakdown of Phosphate Cation Exchangers – N. G. Polyanskii, G. Ya. Isaeva, G. A. Akopov, and Z. M. Kiseleva. . 2254 2213
Kinetics of Oxidation of Green Ultramarine – A. E. Gorshtein, I. P. Mukhlenov, N. N. Nikolaeva, and V. V. Karpenko 2358 2217
Relation between Sorption of the Reaction Components and Kinetics of Transesterification in Presence of Sulfonated Cation Exchangers – V. O. Reikhsfel'd, N. A. Filippov, and G. P. Yavshits 2363 2223
Corrosion of Materials of Construction in Melts Based on Sodium Hydroxide – L. N. Gerasimenko, A. G. Morachevskii, N. I. Berdichevskii, I. A. Shesterkin, and V. P. Yurkinskii 2367 2227
Determination of Instability Constants of Pyrophosphate Complexes by the Method of Competitive Reactions – L. I. Vinogradova, E. A. Maksimyuk, E. N. Tekster, and Z. S. Yarv 2370 2229
Adiabatic Calorimeter for Measuring Specific Heats of Liquids in the Temperature Range from 0 to 100°C – G. I. Petrov and L. V. Puchkov. 2373 2233
Influence of the Choice of the Solid Support and of the Conditions of Its Treatment on Gas-Chromatographic Determination of Trace Amounts of Ethanol in Rectified Methanol – L. Ya. Yarpovetskii and P. M. Zaitsev 2376 2236
Stabilization of Soils by Phenolic Alcohols – Yu. V. Pokonova, G. A. Koval'chuk, and N. P. Matveeva 2380 2240

Volume 46, Number 10, Part 2 October, 1973

Supermolecular Structures in Modified Petroleum Binders Used for Briquetting – A. T. Elishevich 2385 2245
Interaction of Nitric Oxide with an Azeotropic Mixture of Nitric and Acetic Acids – B. I. Rubinshtein, Ya. A. Leont'ev, L. A. Morozov, and B. F. Ustavshchikov 2388 2249
Anion Exchangers Based on Amino- and Hydroxyethyl-Substituted Vinylpyridines – N. B. Galitskaya, I. M. Todres, E. I. Lyustgarten, V. B. Kargman, V. D. Kopylova, and K. M. Saldadze. 2391 2252
Thermal Stability of Phosphate Cation Exchangers Having Porous Structure – N. G. Polyanskii, G. Ya. Isaeva, and G. A. Akopov. 2396 2257
Properties of Epoxy–Novolak Block Copolymers Modified with Polyvinyl Butyral – A. F. Nikolaev, M. S. Trizno, and Kh. A. Mamin 2401 2261
Modification of Bitumen with Phosphazenes – L. M. Mitrofanova, Yu. V. Pokonova, and D. A. Rozental' 2404 2264
Interaction of Isopropylbenzene and tert-Butyltoluene with Methylcyclohexane on Aluminosilicate Catalyst – B. G. Gavrilov, G. K. Molchanova, and E. G. Novikova 2407 2267

Engl./Russ.

Influence of Comminution Conditions on the Morphological and Coloristic Properties of Vat Dyes – L. M. Golomb, E. V. Popov, and L. E. Semikina 2410 2270
Influence of Aliphatic Alcohols on Systems Containing Nonionic Surfactants – T. G. Bol'shakova, V. N. Beresnev, and N. I. Smirnov 2414 2274
Separation of Hydrocarbons with the Aid of Fluorinated Alkoxynitriles – L. V. Semenov, A. A. Gaile, A. V. Kashkin, Yu. L. Bakhmutov, and N. E. Petrova 2419 2279
Separation of Higher Aliphatic Dicarboxylic Acids by the Urea Method – V. A. Proskuryakov, V. V. Gromova, and Z. V. Soloveichik 2421 2281
Spectrophotometric Method for Determination of 2-Alkyl-2-imidazolines – T. N. Kuz'micheva, M. I. Kudryavtseva, E. M. Kazinik, B. S. Kolomiets, and É. B. Tarkhanova 2424 2284
Thermodynamic Analysis of Benzene Pyrolysis – L. Kh. Vinokurov, V. M. Gropyanov, A. D. Kokurin, A. S. Slepchenko, and B. F. Yudin 2427 2287
Kinetics of Cellulose Degradation during Treatment with Concentrated Alkali – G. M. Orlovskaya, S. N. Gribova, and V. Ya. Bytenskii 2431 2290
Solubilization of Hexamethylenebenzamide in Aqueous Solutions of Polyethylene Glycol Ethers of Mono- and Dialkylphenols – V. A. Belyaeva, A. I. Terekhova, and T. G. Bondarenko 2435 2294

BRIEF COMMUNICATIONS

Thermochemical Conversions of a Mixture of Iron Oxysulfate and Pyrite in an SO_2 Atmosphere – V. G. Ivanov and I. E. Ioshpa 2438 2298
Solubility of Potassium Chloride in Metallic Potassium and in Liquid Alloys of the Lead–Potassium System – V. B. Busse-Machukas, A. G. Morachevskii, S. I. Statsenko, L. V. Borisova, and V. I. Markin 2440 2300
Roasting of Granulated Substandard Molybdenum Concentrate in a Fixed Bed – L. I. Mekler, V. P. Malyshev, E. A. Buketov, and B. M. Akimov 2442 2301
Kinetics of Decomposition of Certain Borates by Sodium Carbonate Solutions at 90°C – A. B. Zdanovskii, I. I. Strezhneva, and K. V. Tkachev 2444 2303
Disproportionation of Titanium Trichloride – A. A. Krasheninnikova, A. A. Furman, and Z. I. Latina 2447 2305
Influence of Impurities and Precipitation Conditions on the Form of Ammonium Chloride Crystals – E. V. Khamskii and N. S. Dvegubskii 2449 2307
Concentration Distributions in Chemotron (Electrochemical Transducer) Systems – A. M. Azizov and M. I. Kurochkina 2452 2309
Resistance of Titanium to Corrosive Media in Production of Edible Pectin – V. G. Kryuchek, G. A. Preis, S. F. Vazhenin, G. V. Buzina, É. D. Kibrik, and V. V. Parfenenko 2456 2313
Sorption of Bismuth, Lead, and Tin (IV) Compounds from Chloride Solutions by Platinized Carbon – V. P. Taushkanov, I. A. Kuzin, B. M. Leonov, and Yu. A. Pokhitonov 2459 2315
Thermal Stability of Carnallite at High Temperatures – R. L. Magunov, S. V. Voevudskaya, and I. S. Stasenko 2462 2317
Mechanism of Dissolution of Kaliborite in Hydrochloric Acid – V. V. Serdyuk, V. A. Bykov, and L. A. Fursei 2464 2319
Investigation of the Nature of Conduction of Lead Silicate Glasses – O. S. Ershov, M. M. Shul'ts, and I. V. Murin 2465 2319
The System $Na_2S_2O_4$–NaCl–H_2O at 65°C – A. E. Telepneva and L. A. Zagrebina 2468 2321
Possibility of Using the System NaCl–$BaCl_2$ as the Electrolyte for Sodium Production – M. F. Lantratov and A. F. Alabyshev 2470 2323
Conductivity of Saturated Solutions of Lithium in KCl–LiCl Melt – V. F. Grishchenko and L. I. Zarubitskaya 2472 2325
Conditions of Electrodeposition of Silver–Palladium Alloys from Pyrophosphate–Thiocyanate Electrolytes – B. M. Kramer 2474 2326

Investigation of the Leveling Effect in Deposition of Silver from a Thiocyanate–Ferrocyanide Electrolyte – P. M. Vyacheslavov and R. P. Andreev 2477 2328
Study of Interaction of Metallic Sodium with Sodium Hydroxide by the Reaction $2Na + NaOH \rightleftharpoons Na_2O + NaOH$ – B. A. Shikhov, V. G. Karpenko, G. D. Chub, and N. M. Taran 2480 2331
Study of Solubility in the System B_2O_3–P_2O_5–H_2O at 90° and 15°C – G. N. Kononova, A. G. Kuznetsova, and I. N. Shokin 2483 2334
Liquid–Liquid Equilibrium in the Systems Sylvan–Tetrahydrofuran–Water and Sylvan–Furfuryl Alcohol–Water – A. V. Boldyrev, V. M. Komarov, and B. K. Krichevtsov 2485 2336
Liquid–Vapor Equilibrium in the System Water–Furfuryl Alcohol – A. V. Boldyrev, V. M. Komarov, and B. K. Krichevtsov 2487 2338
Polymerization of Methyl Vinyl Ketone – S. P. Andreev, L. M. Novichkova, E. N. Rostovskii, and A. A. Stotskii 2489 2339
Film-Forming Capacity of Certain Ethers of Polyhydric Polymers – M. V. Volkova and O. M. Klimova 2492 2342
Study of Oxidation of Methacrylic Acid–Methacrylamide Copolymer – N. A. Mariampol'skii, V. V. Gol'dshtein, O. V. Pogoda, Z. M. Avakova, and E. I. Abramova 2494 2344
Modification of Polyvinyl Alcohol Fibers by Graft Copolymerization – A. M. Maksimov, L. A. Vol'f, A. I. Meos, and N. A. Bychkova 2497 2346
Influence of n-Aliphatic Alcohols on Separation of Cl^- and SO_4^{2-} Ions during Drop Entrainment – V. Ya. Khentov, V. V. Kryzhanovskaya, M. S. Ostrikov, and G. N. Shadrin 2500 2349
Influence of the Structure of tert-Alkylbenzoic Acids on Retardation of Steel Corrosion in Neutral Media – V. N. Dolinkin, N. A. Gromova, and M. A. Yakovleva 2502 2350
Oxidation of Pyrene by Manganese Dioxide – V. G. Simikov, V. A. Yakobi, V. L. Plakidin, and P. P. Karpukhin 2505 2353
Synthesis of Blue Aminoanthraquinone Dyes Capable of Copolymerization with Vinyl Monomers – R. I. Vlyazlo, L. M. Grivnak, B. G. Boldyrev, and G. A. Voloshin 2509 2356
Interaction of Organic Ions with Sulfonated Ion Exchangers Synthesized with the Use of Long-Chained Cross-Linking Agents – K. P. Papukova, N. N. Kuznetsova, B. V. Moskvichev, and G. V. Samsonov 2511 2357
Investigation and Calculation of the Hydrodynamic Parameters of a Stream-Circulation Bed – I. P. Mukhlenov, V. B. Soroko, L. I. Krupnik, and F. G. Ageev 2514 2359
Interaction of Dicyclopentadiene with Formaldehyde in Presence of KU-2 Cation-Exchange Resin – V. I. Isagulyants, A. U. Stepanyants, V. R. Melikyan, S. V. Khomko, and V. V. Pokrovskaya 2518 2362
Addition of Thiols to Phenyl Allylsulfonates – Yu. G. Skrypnik, R. V. Vizgert, and M. P. Voloshin 2521 2364

BOOK REVIEWS

P. Franzosini, P. Ferloni, and G. Spinolo. Molten Salts with Organic Anions. An Atlas of Phase Diagrams – Reviewed by A. G. Morachevskii 2523 2336

Volume 46, Number 11, Part 1 November, 1973

Production of Glauberite Concentrate from Epsomite–Glauberite and Halite–Glauberite Rocks – O. Ryspaev, I. E. Batyrchaev, and I. G. Druzhinin 2525 2369

Influence of Monoammonium Phosphate on Decomposition of Urea in Concentrated Aqueous Solutions – A. N. Sarbaev, L. S. Malysheva, and G. P. Gerbert 2528 2372
Thermal Decomposition of $MgNH_4PO_4 \cdot 6H_2O$ – M. N. Nabiev, I. A. Borukhov, V. A. Svistunov, and M. T. Saibova 2532 2377
Action of Nitric and Phosphoric Acid Solutions on Chemical Porcelain – A. I. Avgustinik and I. M. Mironov 2536 2382
Some Characteristics of Cyclic Operation in the System K^+, Na^+ / SO_4^{2-}, CNS^-, $Cl^- - H_2O$ during Separate Production of Potassium Sulfate and Sodium Chloride – E. F. Zhuravlev and O. G. Nikitina 2539 2385
Sorption of Germanium on Zinc Hydroxide and on Wood Charcoal Treated with $Zn(OH)_2$ – E. A. Kogan and D. Ya. Evdokimov 2543 2390
Use of Ferric Chloride for Chloride Volatilization from Pyrite Cinders – A. N. Ternovskaya, I. D. Reznik, and E. P. Kol'tsova 2548 2394
Variable Composition of Calcium Ortho- and Oxyorthosilicates – V. I. Korneev and M. M. Sychev 2551 2398
Enthalpies of Mixing of Liquid Silicon and Barium at 1723°K – Yu. O. Esin, V. M. Sandakov, P. V. Gel'd, M. A. Ryss, A. K. Golev, and V. P. Zaiko 2554 2402
Solubility Polytherm for the System $CO(NH_2)_2 - H_3PO_4 - H_2O$ – N. N. Nurakhmetov, B. A. Beremzhanov, and K. G. Khanapin 2557 2405
Sorption of Zinc from Weakly Acidic Nickel Sulfate–Chloride Solution by Strongly Basic Anion Exchangers – N. P. Kolonina, N. I. Kubareva, and E. F. Krasil'nikova 2560 2408
Chemical Processes in Interaction of Sodium L-Glutamate with Cobalt Chloride in Aqueous Solutions – Z. V. Bakasova, S. K. Umetalieva, and I. G. Druzhinin 2564 2413
Solid Solutions in the System K, $Rb \| NO_2$, NO_3 – P. I. Protsenko, L. S. Grin'ko, L. N. Venerovskaya, and V. A. Lyutsedarskii 2568 2416
Thermodynamic Analysis of Reactions in Mixtures of Quartz with Sodium Hydroxide – É. R. Saakyan, B. N. Frenkel', and G. M. Matveev 2572 2421
Thermodynamic Analysis of the System H–C–N at High Temperatures – Yu. I. Krasnokut-skii, S. N. Ganz, and V. D. Parkhomenko 2576 2425
Kinetics of Dissolution of Materials Based on Stannic Oxide in Molten Phosphate Glass – S. D. Dzhumagulov, Yu. N. Kondrat'ev, V. K. Pavlovskii, and G. T. Petrovskii 2580 2428
Acidic Properties of Zirconium "Molybdovandates" – R. G. Safina, N. E. Denisova, and E. S. Boichinova 2584 2432
Sorption of Streptomycin by the Carboxylic Cation Exchanger KB-2 – G. V. Samsonov, N. N. Momot, and N. I. Dubinina 2588 2436
Low-Temperature Adsorption of Air on Metallized Adsorbents – I. A. Kuzin, D. S. Likhachev, and A. I. Loskutov 2592 2440
Sorption of Metal Ions by Hydrated Zirconium Oxide – O. A. Chernykh and E. S. Boichinova 2596 2445
Sorption of Formaldehyde by Weakly Basic Anion Exchangers – É. M. Rakov 2600 2449
Influence of the Medium on the Kinetics of Transesterification of Ethyl Acrylate with n-Butanol in Presence of KU-2 Cation-Exchange Resin – V. O. Reikhsfel'd, N. A. Filippov, and G. P. Yavshits 2603 2453
Properties of Cation-Selective Membranes Based on KU-2 and KF-1 Resins – B. N. Laskorin, N. M. Smirnova, I. N. Glazkova, and L. E. Gerasimova 2607 2456
Liquid–Vapor Equilibrium in the System Toluene–Dioxane–Isobutyl Alcohol at 80 and 100° – M. P. Susarev and A. M. Toikka 2611 2461

Liquid–Vapor Equilibrium in the System Water–Acetic Acid–p-Xylene at 760 mm – R. A. Murogova, G. L. Tudorovskaya, N. I. Pleskach, N. A. Safonova, I. D. Gridin, and L. A. Serafimov 2615 2464
Equilibrium Pressure in the System $NH_3-CO_2-CO(NH_2)_2-H_2O$ – D. M. Gorlovskii, N. N. Koshcherenkov, and V. I. Kucheryavyi 2618 2467
Interaction of Dimethyl Sulfoxide with Nitrophenols in Presence of Acetone – I. M. Bokhovkin and T. G. Antonova 2621 2471
Equilibrium Pressure in the System $NH_3-CO_2-CO(NH_2)_2-H_2O$ – D. M. Gorlovskii, N. N. Koshcherenkov, and V. I. Kucheryavyi 2625 2474
Liquid–Vapor Equilibrium in the System Formic Acid–n-Butyl Formate–Pyridine at 760 mm – T. V. Korovina, M. I. Balashov, and L. A. Serafimov 2628 2477
Change of the Ratio of the Mole Fractions of Two Components on Transition from a Ternary to a Quaternary Azeotrope – A. N. Marinichev and M. P. Susarev 2633 2484

Volume 46, Number 11, Part 2 November, 1973

Algorithmization of Methods for Determination of Certain Physicochemical Parameters of Mixed Electrolyte Solutions – N. A. Tseitlin 2637 2488
Convective Heat Transfer in a Vertical Film-Type Rotary Apparatus with Rigidly Fixed Blades – I. V. Domanskii, A. F. Avdon'kin, and V. N. Sokolov 2641 2492
Modeling of a Flow Reactor for a Two-Phase Liquid–Liquid System – V. V. Kafarov, V. P. Vorob'ev, and V. A. Klipinitser 2645 2496
Influence of Surfactants on the Average Thickness of a Draining Liquid Film – R. D. Koneru, Yu. M. Tananaiko, and I. I. Chernobyl'skii 2650 2501
Technical Calculations of the Principal Parameters of Continuous Adsorption Processes for Exhaustive Drying of Gases – A. N. Shiryaev and Yu. Yu. Kurochkin 2654 2506
Electrochemical Synthesis of Ammonium Chrome Alum – S. S. Savel'ev, É. P. Rivkind, and A. G. Mokhov 2657 2509
Voltage Balance in Sodium (Downs-Type) Cells – K. Ya. Grachev, V. Z. Grebenik, E. I. Adaev, V. A. Novoselov, I. A. Shesterkin, and V. Yu. Nikolaevskii 2660 2512
Contact Deposition of Copper on Titanium – I. N. Gladskii 2664 2515
Electrodeposition of Tellurium from Alkaline Solutions – A. I. Alekperov 2668 2519
Investigation of the Composition of Products of Iron Corrosion in Salt Water – L. S. Nadezhina, S. V. Davydova, and V. V. Skorcheletti 2671 2523
Corrosion Resistance of Titanium Alloys in Aggressive Process Media in Tartaric Acid Production – V. G. Kryuchek, S. F. Vazhenin, G. A. Preis, M. K. Sinyavskaya, and L. D. Skal'skaya 2676 2528
Mechanism of Hardening of Dimethylvinylethynylphenol Oligomer – P. V. Sysoev, A. I. Korshunov, I. V. Kamenskii, M. N. Bragina, and V. M. Il'ina 2679 2531
Influence of Composition and Preparation Conditions on the Physicochemical Properties of Granulated Gels – V. B. Tolstoguzov, V. A. Ershova, and E. E. Braudo 2682 2534
Mathematical Modeling of Oxidation of o-Xylene to Phthalic Anhydride in a Fluidized Catalyst Bed – A. A. Imanverdiev, V. S. Aliev, G. M. Ostrovskii, A. G. Abilov, M. I. Rustamov, and É. M. Seidrzaeva 2687 2538
Liquid-Phase Oxidation of Benzene Initiated by Homologs of Benzene and of Cyclohexane – P. I. Shaboldo, V. A. Proskuryakov, and V. M. Potekhin 2692 2543

Engl./Russ.

Amination of Chloromethylated Vinylaromatic Polymers with Tertiary Diamines — S. N. Il'ichev, B. N. Trushin, K. M. Saldadze, M. P. Kovaleva, and G. D. Al'shanova 2695 2547

Influence of the Structure of the Alcohol on Kinetics of Transesterification of Ethyl Acrylate in Presence of KU-2 × 8 Cation-Exchange Resin — V. O. Reikhsfel'd, N. A. Filippov, and G. P. Yavshits 2698 2550

BRIEF COMMUNICATIONS

Interaction of Magnesium with Fused Alkalies — V. K. Shcherbakov and S. I. Kuznetsov 2703 2555

Viscosity of Liquid Nitrogen—Phosphorus Fertilizers Made from Phosphoric Acid, Ammonia, and Urea — I. N. Gryncharov 2706 2557

The Systems $BaCl_2$—KCl—H_2O and $BaCl_2$—NaCl—H_2O at 25 and 75° — V. Mozharova, V. A. Borovaya, and E. N. Pavlyuchenko 2709 2560

Character of the Changes of Solution Properties during Transition from the Unsaturated to the Supersaturated State — S. D. Nikitina and E. V. Khamskii 2711 2563

Kinetics of Oxidation of Iron (II) during Heating of a Mixture of Ferrous Sulfate with Sodium Carbonate — N. Sh. Safiullin, M. N. Moshoshina, and Yu. Ya. Bobyrenko 2713 2565

Thermographic Analysis and Weight-Loss Curves of Anion Exchangers of the Ankalit Type — Z. N. Éirish, V. V. Zykova, and B. N. Laskorin 2716 2567

Sorption of Ammonia and Pyridine from Aqueous Solutions by Ion-Exchange Resins — R. I. Kudryashova and G. D. Kharlampovich 2720 2571

Sorption of Sulfanilamide by Ion-Exchange Resins — G. N. Al'tshuler and A. I. Fomchenkova 2723 2574

Study of the Sorption Activity of Phosphonated Silica with Respect to Ammonia Vapor — A. A. Malygin, A. N. Volkova, and S. I. Kol'tsov 2726 2576

Liquid—Vapor Equilibrium in the Systems Sylvan—Tetrahydrofuran and Sylvan—Tetrahydrosylvan — A. V. Boldyrev, V. M. Komarov, T. R. Khaspekova, and B. K. Krichevtsov 2728 2578

Adsorption of Aliphatic Alcohols on Cement — A. N. Grach'yan, L. N. Dovyborova, V. A. Golosnitskaya, and T. I. Tavlinova 2730 2579

Influence of Zinc-Containing Additives on Properties of Portland Cements — A. N. Grach'yan, G. Z. Zubar', and G. I. Kramanovich 2732 2581

Binding Properties in the System MF_m—HF—H_2O — M. M. Sychev, O. I. Sviderskaya, V. B. Borisova, and N. V. Lazareva 2735 2583

Determination of Diffusion Fluxes in the Cathodic Region of a Chemotronic Element — A. M. Azizov and M. I. Kurochkina 2738 2586

Acidity Distribution in the Interelectrode Space during Electrolysis of Sodium Chloride Solutions with a Mercury Cathode — T. M. Ovchinnikova, V. E. Zyablitsev, and L. A. Khmelina 2741 2589

Corrosion of Liquid Alloys of Zinc with Yttrium and with Rare-Earth Elements in LiCl—KCl Melts — A. V. Kovalevskii, V. A. Lebedev, I. F. Nichkov, and S. P. Raspopin 2743 2590

Investigation of the Product of Thermal Decomposition of Tungsten Hexacarbonyl — O. D. Krichevskaya, K. A. Muravin, V. L. Kremnev, and K. N. Bolotova 2746 2593

Isolation of 1,10-Decanedicarboxylic Acid from the Products of of Cyclododecanone Oxidation — V. A. Proskuryakov, V. V. Gromova, and Z. V. Soloveichik 2748 2594

Distribution of Diphenylolpropane betweeen Certain Organic Solvents and Water — Ya. I. Korenman and A. A. Gorokhov 2751 2597

Extraction of p-Halophenols — Ya. I. Korenman 2754 2599

Interaction of Polyvinyl Alcohol with Succinic Acid during Low-Temperature Hardening of Films – I. S. Okhrimenko, L. N. Mashlyakovskii, and G. A. Smirnov 2756 2601

Refractive Power of Certain Mercaptans with Respect to Au (III), Ag (I), Pt (IV), and Pd (II) – V. A. Pronin, M. V. Ustol'tseva, B. A. Trofimov, E. P. Vyalykh, and Z. N. Shastina 2758 2602

CHRONICLES

Conference on Mass Crystallization – Reported by O. B. Tsitovich 2761 2605

BOOK REVIEWS

K. Burger. Organic Reagents in Metal Analysis – Reviewed by M. I. Kurochkina 2765 2608

G. Neumann and G. M. Neumann. Surface Self-Diffusion of Metals – Reviewed by M. I. Kurochkina 2766 2608

Volume 46, Number 12, Part 1 December, 1973

Influence of Silica on Reduction of Phosphorus from Calcium Phosphate by the Wohler Reaction – A. M. Shevyakov, V. A. Ershov, I. B. Gavrilenko, and I. G. Sultanova 2767 2609

Study of the Processes and Kinetics of Formation of Alkali-Metal Silicates under Dynamic Conditions – É. K. Belyaev and V. F. Annopol'skii 2771 2614

Structure of Skeletal (Raney) Nickel Catalysts with Additions of Rhenium, Palladium, and Ruthenium – A. B. Fasman, Yu. F. Klyuchnikov, B. F. Petrov, and I. A. Sapukov 2775 2618

Influence of Excess Carbon Dioxide on Equilibrium in the Bazarov Reaction – D. M. Gorlovskii, N. N. Koshcherenkov, and V. I. Kucheryavyi 2780 2624

Kinetics of Ammonia Transfer into the Liquid Phase in the Two-Phase Gas–Liquid System NH_3–CO_2–H_2O–$CO(NH_2)_2$ at High Pressures and Temperatures – V. I. Kucheryavyi, L. N. Al'tshuler, and V. A. Gorbushenkov 2784 2628

Boiling Points of Solutions of Fertilizer Mixtures Containing Monoammonium Phosphate – Z. A. Polyakova, A. N. Sarbaev, and M. F. Tyunina 2789 2633

Viscosities of Lithium, Sodium, Potassium, (and Ammonium) Hydroxide Solutions at Temperatures Up to 275°C – L. V. Puchkov and P. M. Sargaev 2793 2637

Thermodynamic Properties of Solutions of Sodium in Fused Sodium Chloride – A. G. Morachevskii and F. I. L'vovich 2796 2640

Phase Composition of Electrode Pastes in Lead Storage Batteries – A. I. Rusin and M. A. Dasoyan 2799 2643

Anodic Concentration of Bismuth from Alloys with Lead in Alkali Melts – O. G. Zarubitskii, O. A. Salabai, and V. G. Budnik 2803 2647

Influence of the Structure of Anions of Aliphatic Carboxylic Acids on Electrochemical Dissolution of Iron – N. I. Podobaev and A. P. Lubenskii 2806 2650

Behavior of an Active Zinc Electrode in Alkali and Zincate Solutions – E. M. Revina, A. L. Rotinyan, and I. A. Shoshina 2810 2654

Demineralization of Water by Electrodialysis with Ion-Exchanger Packing between the Membranes – V. A. Shaposhnik, A. K. Reshetnikova, R. I. Zolotareva, I. V. Drobysheva, and N. I. Isaev 2815 2659

Dependence of the Rate of Emulsion Polymerization Initiated by Potassium Persulfate on the Emulsifier Concentration – M. S. Ryabova, V. N. Beresnev, and N. I. Smirnov 2819 2663

Suppression of the Catalytic Activity of Copper in Butadiene–Styrene Rubber by Organic Acids – K. B. Piotrovskii, Yu. A. L'vov, and E. E. Senderskaya 2824 2668

	Engl.	Russ.
Model of a Polarized Adhesive Layer – I. F. Efremov and O. M. Rozental'	2827	2671
Investigation of Desorption of Hydrocarbons in Moving Adsorbent Beds by the Thermal-Displacement and Vacuum-Thermal Methods – T. G. Plachenov, V. I. Redin, A. A. Seballo, and A. N. Shiryaev	2831	2675
Adsorption and Flocculant Properties of Polyethylene Oxide – V. N. Epimakhov, V. A. Sannikov, Yu. M. Mishenov, A. P. Chuprova, and M. M. Tarnorutskii	2834	2678
Hydroformylation of Propene in Presence of Cobalt Carbonyl Catalyst Modified with Tributylphosphine – N. S. Imyanitov and V. A. Volkov	2839	2683
Method of Raising the Accessibility of Cellulose to Acetylation – I. P. Fedorishcheva, N. I. Khilenko, V. N. Vozhzhannikov, and V. N. Pirogov	2844	2688
Oxidation of Phenyl Cellosolve – N. A. Keiko, A. P. Chichkarev, and V. V. Keiko	2847	2691
Bifunctional Compounds in the Products of Liquid-Phase Oxidation of n-Decane – A. M. Syroezhko, V. M. Potekhin, and V. A. Proskuryakov	2850	2694

Volume 46, Number 12, Part 2 December, 1973

	Engl.	Russ.
Oxidative Regeneration of Spent Alkali Solutions from Absorption of Ethyl Mercaptan – A. V. Gladkii, L. F. Sokolina, Yu. M. Afanas'ev, and N. S. Torocheshnikov	2855	2698
Conversion of Decanol-2 during Catalytic Oxidation of n-Decane – A. M. Syroezhko, V. M. Potekhin, V. A. Proskuryakov, and V. V. Serov	2859	2703
Hydrogenation of Phenol in Presence of Promoted Nickel Catalysts – D. V. Sokol'skii, N. I. Popov, F. B. Bizhanov, E. Bakhanov, S. Sapakhov, and S. Ongarbaev	2864	2707
Application of Experimental Design to a Study of the Condensation of Cumene with Formaldehyde – Yu. M. Kobel'chuk and N. K. Moshchinskaya	2868	2711
Interaction of Chlorosulfonic Acid with Iron Powder in Pyridine – T. L. Myslin, V. I. Rogovik, and P. P. Karpukhin	2872	2716
Preparation and Properties of Bis(acetylacetonato)carboxylates of Manganese(III) – A. F. Nikolaev, K. V. Belogorodskaya, V. G. Shibalovich, E. D. Andreeva, L. V. Bogdanova, and M. V. Vinogradov	2875	2718
Production of 4,4-Dimethyldioxane-1,3 from an Industrial Isobutane–Isobutene Fraction and Formaldehyde in an Experimental Assembly – M. G. Safarov, G. I. Rutman, A. G. Liakumovich, V. I. Isagulyants, I. M. Belgorodskii, A. F. Artem'ev, D. L. Rakhmankulov, and E. M. Sire	2882	2726
Topochemical Aspects of the Synthesis of Epoxy–Diane Resins in the Liquid Phase – S. M. Rozentuler, A. G. Pozamantir, and A. F. Nikolaev	2887	2731
Mechanism of Interaction of the Simplest Aldehydes with Ammonia – V. V. Vetrova, N. A. Titova, and B. F. Ustavshchikov	2890	2735
Aldol Condensation of Branched β-Methyl Aldehydes – V. A. Rybakov, V. Yu. Gankin, and I. S. Fuks	2896	2741
Action of Pyridine in Hydromethoxycarbonylation of Olefins – M. G. Katsnel'son	2900	2745
BRIEF COMMUNICATIONS		
Fifteenth International Conference on Coordination Chemistry – L. K. Simonova	2904	2750
Behavior of Sulfur Impurities in Germanium Tetrachloride – I. S. Pashchenko, G. I. Petrov, and L. N. Shigina	2910	2755
Hydrolysis of Pyrophosphate Ions in Solutions Containing Vanadium – V. A. Leitsin, S. D. Grekov, and V. G. Dobosh	2913	2757
Solubility of Oxygen in Concentrated Nitric Acid – A. V. Shapka and A. V. Atroshchenko	2915	2759
Structure and Solubility of Lead Tungstate – A. A. Bulatova, V. B. Aleskovskii, and M. I. Bulatov	2918	2761

	Engl./Russ.	
Zinc Germanates – G. N. Kuznetsova and T. M. Tregubova	2921	2763
X-Ray-Diffraction, Thermographic, and Electron-Microscopic Studies of Magnetite Obtained from Solutions of Ferrous Sulfate in Sulfuric Acid – S.I. Rempel', É. E. Élik, I. A. Leont'eva, and N. N. Skornyakov	2924	2765
Study of Solubility in the System NH_4NO_3–$NH_4H_2PO_4$–H_2O at Low Water Concentrations – M. L. Varlamov, I. M. Kaganskii, I. A. Kashcheeva, and G. A. Manakin	2926	2767
Liquid–Vapor Equilibrium in the Systems CH_3SiCl_3–$GeCl_4$ and CH_3SiCl_3–$SnCl_4$ – T. D. Sokolova, N. K. Prokof'eva, and L. A. Nisel'son	2929	2770
Forced Phase Separation of Heterogeneous Glasses by High-Temperature Centrifuging of Melts – V. V. Vargin, E. M. Milyukov, and E. A. Isaeva	2932	2772
Thermodynamic Activities of the Components in Melts of the System $MnCl_2$–KCl – B. P. Burylev	2934	2774
Electrolytic Deposition of Ruthenium Coatings from Sulfamate Solutions – N. I. Terent'eva, and B. P. Yur'ev	2937	2776
Coulogravimetric Investigation of a Cadmium Electrode – E. B. Eron'ko, V. B. Uvarov, R. V. Boldin, and A. L. Rotinyan	2940	2778
Specificity of Interaction and Rate of Diffusion of Organic Ions in Macroreticular Ion-Exchange Resins – V. S. Yurchenko, K. P. Papukova, N. N. Kuznetsova, B. V. Moskvichev, and G. V. Samsonov	2942	2779
Dynamics of Adsorption of Mixtures in Moving Adsorbent Beds – T. G. Plachenov, Yu. S. Lezin, E. I. Baranov, A. A. Seballo, V. I. Kvasha, and A. N. Shiryaev	2946	2782
INDEX		
Author Index, Volume 46, Numbers 1-12, 1973	2953	
Tables of Contents, Volume 46, Numbers 1-12, 1973	2967	